

(<http://www-genome.wi.mit.edu/cgi-bin/contig/rhMapper.pl>) to determine the probable chromosomal location. Using this approach, P501S was mapped to the long arm of chromosome 1 at WI-9641 between q32 and q42. This region of chromosome 1 has been linked to prostate cancer susceptibility in hereditary prostate cancer (Smith *et al.* 5 *Science* 274:1371-1374, 1996 and Berthon *et al.* *Am. J. Hum. Genet.* 62:1416-1424, 1998). These results suggest that P501S may play a role in prostate cancer malignancy.

EXAMPLE 20

REGULATION OF EXPRESSION OF THE PROSTATE-SPECIFIC ANTIGEN P501S

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Steroid (androgen) hormone modulation is a common treatment modality in prostate cancer. The expression of a number of prostate tissue-specific antigens have previously been demonstrated to respond to androgen. The responsiveness of the prostate-specific antigen P501S to androgen treatment was examined in a tissue culture 15 system as follows.

Cells from the prostate tumor cell line LNCaP were plated at 1.5×10^6 cells/T75 flask (for RNA isolation) or 3×10^5 cells/well of a 6-well plate (for FACS analysis) and grown overnight in RPMI 1640 media containing 10% charcoal-stripped fetal calf serum (BRL Life Technologies, Gaithersburg, MD). Cell culture was 20 continued for an additional 72 hours in RPMI 1640 media containing 10% charcoal-stripped fetal calf serum, with 1 nM of the synthetic androgen Methyltrienolone (R1881; New England Nuclear) added at various time points. Cells were then harvested for RNA isolation and FACS analysis at 0, 1, 2, 4, 8, 16, 24, 28 and 72-hours post androgen addition. FACS analysis was performed using the anti-P501S antibody 10E3- 25 G4-D3 and permeabilized cells.

For Northern analysis, 5-10 micrograms of total RNA was run on a formaldehyde denaturing gel, transferred to Hybond-N nylon membrane (Amersham Pharmacia Biotech, Piscataway, NJ), cross-linked and stained with methylene blue. The filter was then prehybridized with Church's Buffer (250 mM Na₂HPO₄, 70 mM H₃PO₄, 30 1 mM EDTA, 1% SDS, 1% BSA in pH 7.2) at 65 °C for 1 hour. P501S DNA was

labeled with ^{32}P using High Prime random-primed DNA labeling kit (Boehringer Mannheim). Unincorporated label was removed using MicroSpin S300-HR columns (Amersham Pharmacia Biotech). The RNA filter was then hybridized with fresh Church's Buffer containing labeled cDNA overnight, washed with 1X SCP (0.1 M NaCl, 0.03 M $\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$, 0.001 M Na_2EDTA), 1% sarkosyl (n-lauroylsarcosine) and exposed to X-ray film.

Using both FACS and Northern analysis, P501S message and protein levels were found in increase in response to androgen treatment.

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EXAMPLE 20

PREPARATION OF FUSION PROTEINS OF PROSTATE-SPECIFIC ANTIGENS

The example describes the preparation of a fusion protein of the prostate-specific antigen P703P and a truncated form of the known prostate antigen PSA. The 15 truncated form of PSA has a 21 amino acid deletion around the active serine site. The expression construct for the fusion protein also has a restriction site at 3' end, immediately prior to the termination codon, to aid in adding cDNA for additional antigens.

The full-length cDNA for PSA was obtained by RT-PCR from a pool of 20 RNA from human prostate tumor tissues using the primers of SEQ ID NO: 607 and 608, and cloned in the vector pCR-Blunt II-TOPO. The resulting cDNA was employed as a template to make two different fragments of PSA by PCR with two sets of primers (SEQ ID NO: 609 and 610; and SEQ ID NO: 611 and 612). The PCR products having the expected size were used as templates to make truncated forms of PSA by PCR with 25 the primers of SEQ ID NO: 611 and 613, which generated PSA (delta 208-218 in amino acids). The cDNA for the mature form of P703P with a 6X histidine tag at the 5' end, was prepared by PCR with P703P and the primers of SEQ ID NO: 614 and 615. The cDNA for the fusion of P703P with the truncated form of PSA (referred to as FOPP) was then obtained by PCR using the modified P703P cDNA and the truncated form of 30 PSA cDNA as templates and the primers of SEQ ID NO: 614 and 615. The FOPP

cDNA was cloned into the NdeI site and XhoI site of the expression vector pCRX1, and confirmed by DNA sequencing. The determined cDNA sequence for the fusion construct FOPP is provided in SEQ ID NO: 616, with the amino acid sequence being provided in SEQ ID NO: 617.

5 The fusion FOPP was expressed as a single recombinant protein in *E. coli* as follows. The expression plasmid pCRX1FOPP was transformed into the *E. coli* strain BL21-CodonPlus RIL. The transformant was shown to express FOPP protein upon induction with 1 mM IPTG. The culture of the corresponding expression clone was inoculated into 25 ml LB broth containing 50 ug/ml kanamycin and 34 ug/ml
10 chloramphenicol, grown at 37 °C to OD600 of about 1, and stored at 4 °C overnight. The culture was diluted into 1 liter of TB LB containing 50 ug/ml kanamycin and 34 ug/ml chloramphenicol, and grown at 37 °C to OD600 of 0.4. IPTG was added to a final concentration of 1 mM, and the culture was incubated at 30 °C for 3 hours. The cells were pelleted by centrifugation at 5,000 RPM for 8 min. To purify the protein, the
15 cell pellet was suspended in 25 ml of 10 mM Tris-Cl pH 8.0, 2mM PMSF, complete protease inhibitor and 15 ug lysozyme. The cells were lysed at 4 °C for 30 minutes, sonicated several times and the lysate centrifuged for 30 minutes at 10,000 x g. The precipitate, which contained the inclusion body, was washed twice with 10 mM Tris-Cl pH 8.0 and 1% CHAPS. The inclusion body was dissolved in 40 ml of 10 mM Tris-Cl
20 pH 8.0, 100 mM sodium phosphate and 8 M urea. The solution was bound to 8 ml Ni-NTA (Qiagen) for one hour at room temperature. The mixture was poured into a 25 ml column and washed with 50 ml of 10 mM Tris-Cl pH 6.3, 100 mM sodium phosphate, 0.5% DOC and 8M urea. The bound protein was eluted with 350 mM imidazole, 10 mM Tris-Cl pH 8.0, 100 mM sodium phosphate and 8 M urea. The fractions containing
25 FOPP proteins were combined and dialyzed extensively against 10 mM Tris-Cl pH 4.6, aliquoted and stored at - 70 °C.

EXAMPLE 21

REAL-TIME PCR CHARACTERIZATION OF THE PROSTATE-SPECIFIC ANTIGEN P501S IN
PERIPHERAL BLOOD OF PROSTATE CANCER PATIENTS

5 Circulating epithelial cells were isolated from fresh blood of normal individuals and metastatic prostate cancer patients, mRNA isolated and cDNA prepared using real-time PCR procedures. Real-time PCR was performed with the Taqman™ procedure using both gene specific primers and probes to determine the levels of gene expression.

10 Epithelial cells were enriched from blood samples using an immunomagnetic bead separation method (Dynal A.S., Oslo, Norway). Isolated cells were lysed and the magnetic beads removed. The lysate was then processed for poly A+ mRNA isolation using magnetic beads coated with Oligo(dT)25. After washing the beads in buffer, bead/poly A+ RNA samples were suspended in 10 mM Tris HCl pH 8.0
15 and subjected to reversed transcription. The resulting cDNA was subjected to real-time PCR using gene specific primers. Beta-actin content was also determined and used for normalization. Samples with P501S copies greater than the mean of the normal samples + 3 standard deviations were considered positive. Real time PCR on blood samples was performed using the Taqman™ procedure but extending to 50 cycles using
20 forward and reverse primers and probes specific for P501S. Of the eight samples tested, 6 were positive for P501S and β-actin signal. The remaining 2 samples had no detectable β-actin or P501S. No P501S signal was observed in the four normal blood samples tested.

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EXAMPLE 22

EXPRESSION OF THE PROSTATE-SPECIFIC ANTIGENS P703P AND P501S IN
SCID MOUSE-PASSAGED PROSTATE TUMORS

When considering the effectiveness of antigens in the treatment of
30 prostate cancer, the continued presence of the antigens in tumors during androgen

ablation therapy is important. The presence of the prostate-specific antigens P703P and P501S in prostate tumor samples grown in SCID mice in the presence of testosterone was evaluated as follows.

Two prostate tumors that had metastasized to the bone were removed
5 from patients, implanted into SCID mice and grown in the presence of testosterone. Tumors were evaluated for mRNA expression of P703P, P501S and PSA using quantitative real time PCR with the SYBR green assay method. Expression of P703P and P501S in a prostate tumor was used as a positive control and the absence in normal intestine and normal heart as negative controls. In both cases, the specific mRNA was
10 present in late passage tumors. Since the bone metastases were grown in the presence of testosterone, this implies that the presence of these genes would not be lost during androgen ablation therapy.

EXAMPLE 23

15 ANTI-P503S MONOCLONAL ANTIBODY INHIBITS TUMOR GROWTH *IN VIVO*

The ability of the anti-P503S monoclonal antibody 20D4 to suppress tumor formation in mice was examined as follows.

Ten SCID mice were injected subcutaneously with HEK293 cells that expressed P503S. Five mice received 150 micrograms of 20D4 intravenously at day 0
20 (time of tumor cell injection), day 5 and day 9. Tumor size was measured for 50 days. Of the five animals that received no 20D4, three formed detectable tumors after about 2 weeks which continued to enlarge throughout the study. In contrast, none of the five mice that received 20D4 formed tumors. These results demonstrate that the anti-P503S Mab 20D4 displays potent anti-tumor activity *in vivo*.

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EXAMPLE 24

CHARACTERIZATION OF A T CELL RECEPTOR CLONE FROM A P501S-SPECIFIC T CELL CLONE

30 T cells have a limited lifespan. However, cloning of T cell receptor (TCR) chains and subsequent transfer essentially enables infinite propagation of the T

cell specificity. Cloning of tumor-antigen TCR chains allows the transfer of the specificity into T cells isolated from patients that share the TCR MHC-restricting allele. Such T cells could then be expanded and used in adoptive transfer settings to introduce the tumor antigen specificity into patients carrying tumors that express the antigen. T 5 cell receptor alpha and beta chains from a CD8 T cell clone specific for the prostate-specific antigen P501S were isolated and sequenced as follows.

Total mRNA from 2×10^6 cells from CTL clone 4E5 (described above in Example 12) was isolated using Trizol reagent and cDNA was synthesized. To determine Va and Vb sequences in this clone, a panel of Va and Vb subtype-specific 10 primers was synthesized and used in RT-PCR reactions with cDNA generated from each of the clones. The RT-PCR reactions demonstrated that each of the clones expressed a common Vb sequence that corresponded to the Vb7 subfamily. Furthermore, using cDNA generated from the clone, the Va sequence expressed was determined to be Va6. To clone the full TCR alpha and beta chains from clone 4E5, 15 primers were designed that spanned the initiator and terminator-coding TCR nucleotides. The primers were as follows: TCR Valpha-6 5'(sense): GGATCC---GCCGCCACC—ATGTCACTTCTAGCCTGCT (SEQ ID NO: 756) BamHI site Kozak TCR alpha sequence TCR alpha 3' (antisense): GTCGAC---TCAGCTGGACCACAGCCGCAG (SEQ ID NO: 757) SalI site TCR alpha constant 20 sequence TCR Vbeta-7. 5'(sense): GGATCC---GCCGCCACC---ATGGGCTGCAGGCTGCTCT (SEQ ID NO: 758) BamHI site Kozak TCR alpha sequence TCR beta 3' (antisense): GTCGAC---TCAGAAATCCTTCTTTGAC (SEQ ID NO: 759) SalI site TCR beta constant sequence. Standard 35 cycle RT-PCR reactions were established using cDNA synthesized from the CTL clone and the above 25 primers, employing the proofreading thermostable polymerase PWO (Roche, Nutley, NJ).

The resultant specific bands (approx. 850 bp for alpha and approx. 950 for beta) were ligated into the PCR blunt vector (Invitrogen) and transformed into *E. coli*. *E. coli* transformed with plasmids containing full-length alpha and beta chains 30 were identified, and large scale preparations of the corresponding plasmids were generated. Plasmids containing full-length TCR alpha and beta chains were submitted

for sequencing. The sequencing reactions demonstrated the cloning of full-length TCR alpha and beta chains with the determined cDNA sequences for the V_b and V_a chains being shown in SEQ ID NO: 760 and 761, respectively. The corresponding amino acid sequences are shown in SEQ ID NO: 762 and 763, respectively. The V_a sequence was 5 shown by nucleotide sequence alignment to be 99% identical (347/348) to V_a6.2, and the V_b to be 99% identical to V_b7 (336/338).

From the foregoing it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, 10 various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention is not limited except as by the appended claims.

CLAIMS

What is Claimed:

1. An isolated polynucleotide comprising a sequence selected from the group consisting of:

(a) sequences provided in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788;

(b) complements of the sequences provided in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788;

(c) sequences consisting of at least 20 contiguous residues of a sequence provided in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788;

(d) sequences that hybridize to a sequence provided in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788 under moderately stringent conditions;

(e) sequences having at least 75% identity to a sequence of SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-

375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788;

(f) sequences having at least 90% identity to a sequence of SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788; and

(g) degenerate variants of a sequence provided in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 and 786-788.

2. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

(a) sequences recited in SEQ ID NO: 112-114, 172, 176, 178, 327, 329, 331, 336, 339, 376-380, 383, 477-483, 496, 504, 505, 519, 520, 522, 525, 527, 532, 534, 537-551, 553-568, 573-586, 588-590, 592, 627-629, 632, 633, 635, 637, 638, 656-671, 675, 683, 684, 710, 712, 714, 715, 717-719, 723-734, 736, 740-750, 752, 754, 755, 766-772, 777-785 and 789-791;

(b) sequences having at least 70% identity to a sequence of SEQ ID NO: 112-114, 172, 176, 178, 327, 329, 331, 336, 339, 376-380, 383, 477-483, 496, 504, 505, 519, 520, 522, 525, 527, 532, 534, 537-551, 553-568, 573-586, 588-590, 592, 627-629, 632, 633, 635, 637, 638, 656-671, 675, 683, 684, 710, 712, 714, 715, 717-719, 723-734, 736, 740-750, 752, 754, 755, 766-772, 777-785 and 789-791;

(c) sequences having at least 90% identity to a sequence of SEQ ID NO: 112-114, 172, 176, 178, 327, 329, 331, 336, 339, 376-380, 383, 477-483, 496, 504, 505, 519, 520, 522, 525, 527, 532, 534, 537-551, 553-568, 573-586, 588-590, 592, 627-

629, 632, 633, 635, 637, 638, 656-671, 675, 683, 684, 710, 712, 714, 715, 717-719, 723-734, 736, 740-750, 752, 754, 755, 766-772, 777-785 and 789-791;

- (d) sequences encoded by a polynucleotide of claim 1;
- (e) sequences having at least 70% identity to a sequence encoded by a polynucleotide of claim 1; and
- (f) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.

3. An expression vector comprising a polynucleotide of claim 1 operably linked to an expression control sequence.

4. A host cell transformed or transfected with an expression vector according to claim 3.

5. An isolated antibody, or antigen-binding fragment thereof, that specifically binds to a polypeptide of claim 2.

6. A method for detecting the presence of a cancer in a patient, comprising the steps of:

- (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with a binding agent that binds to a polypeptide of claim 2;
- (c) detecting in the sample an amount of polypeptide that binds to the binding agent; and
- (d) comparing the amount of polypeptide to a predetermined cut-off value and therefrom determining the presence of a cancer in the patient.

7. A fusion protein comprising at least one polypeptide according to claim 2.

8. The fusion protein of claim 7, wherein the fusion protein comprises a sequence selected from the group consisting of:

- (a) sequences provided in SEQ ID NO: 682, 692, 695, 699, 703 and 709; and
- (b) sequences encoded by SEQ ID NO: 679, 691, 696, 700, 704 and 708.

9. An oligonucleotide that hybridizes to a sequence recited in SEQ ID NO: 1-111, 115-171, 173-175, 177, 179-305, 307-315, 326, 328, 330, 332-335, 340-375, 381, 382 and 384-476, 524, 526, 530, 531, 533, 535, 536, 552, 569-572, 587, 591, 593-606, 618-626, 630, 631, 634, 636, 639-655, 674, 680, 681, 711, 713, 716, 720-722, 735, 737-739, 751, 753, 764, 765, 773-776 or 786-788 under moderately stringent conditions.

10. A method for stimulating and/or expanding T cells specific for a tumor protein, comprising contacting T cells with at least one component selected from the group consisting of:

- (a) polypeptides according to claim 2;
- (b) polynucleotides according to claim 1; and
- (c) antigen-presenting cells that express a polypeptide according to claim 1,

under conditions and for a time sufficient to permit the stimulation and/or expansion of T cells.

11. An isolated T cell population, comprising T cells prepared according to the method of claim 10.

12. A composition comprising a first component selected from the group consisting of physiologically acceptable carriers and immunostimulants, and a second component selected from the group consisting of:

- (a) polypeptides according to claim 2;
- (b) polynucleotides according to claim 1;
- (c) antibodies according to claim 5;
- (d) fusion proteins according to claim 7;
- (e) T cell populations according to claim 11; and
- (f) antigen presenting cells that express a polypeptide according to claim 2.

13. A method for stimulating an immune response in a patient, comprising administering to the patient a composition of claim 12.

14. A method for the treatment of a cancer in a patient, comprising administering to the patient a composition of claim 12.

15. A method for determining the presence of a cancer in a patient, comprising the steps of:

- (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with an oligonucleotide according to claim 9;
- (c) detecting in the sample an amount of a polynucleotide that hybridizes to the oligonucleotide; and
- (d) compare the amount of polynucleotide that hybridizes to the oligonucleotide to a predetermined cut-off value, and therefrom determining the presence of the cancer in the patient.

16. A diagnostic kit comprising at least one oligonucleotide according to claim 9.

17. A diagnostic kit comprising at least one antibody according to claim 5 and a detection reagent, wherein the detection reagent comprises a reporter group.

18. A method for inhibiting the development of a cancer in a patient, comprising the steps of:

- (a) incubating CD4+ and/or CD8+ T cells isolated from a patient with at least one component selected from the group consisting of: (i) polypeptides according to claim 2; (ii) polynucleotides according to claim 1; and (iii) antigen presenting cells that express a polypeptide of claim 2, such that T cell proliferate; and
- (b) administering to the patient an effective amount of the proliferated T cells,
thereby inhibiting the development of a cancer in the patient.

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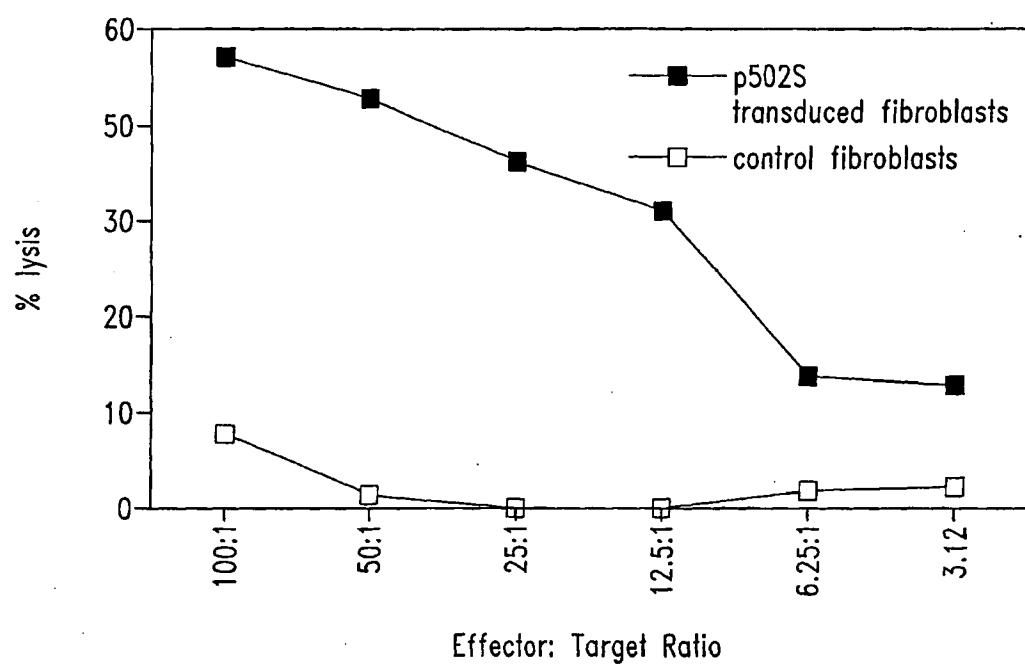


Fig. 1

2/10

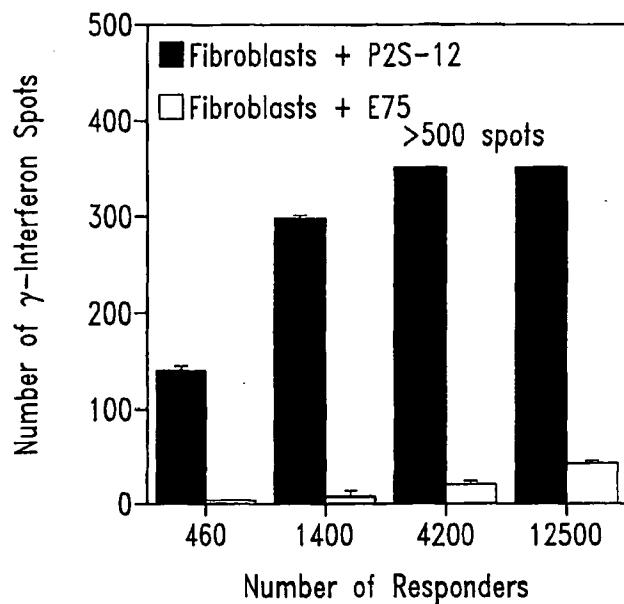


Fig. 2A

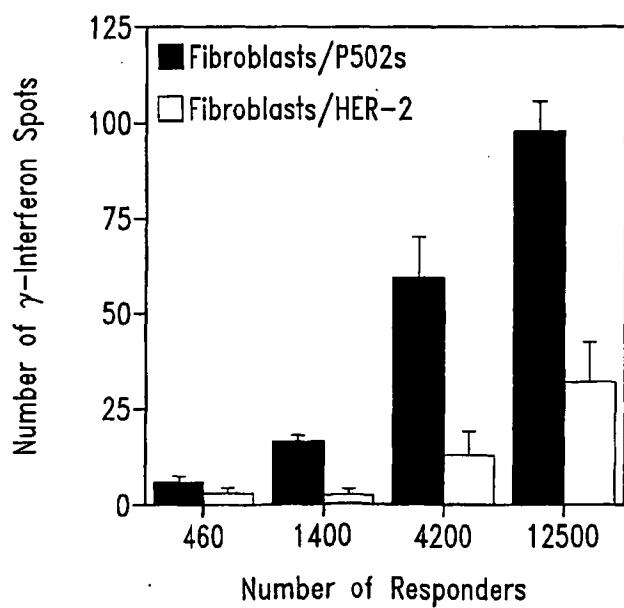


Fig. 2B

3/10

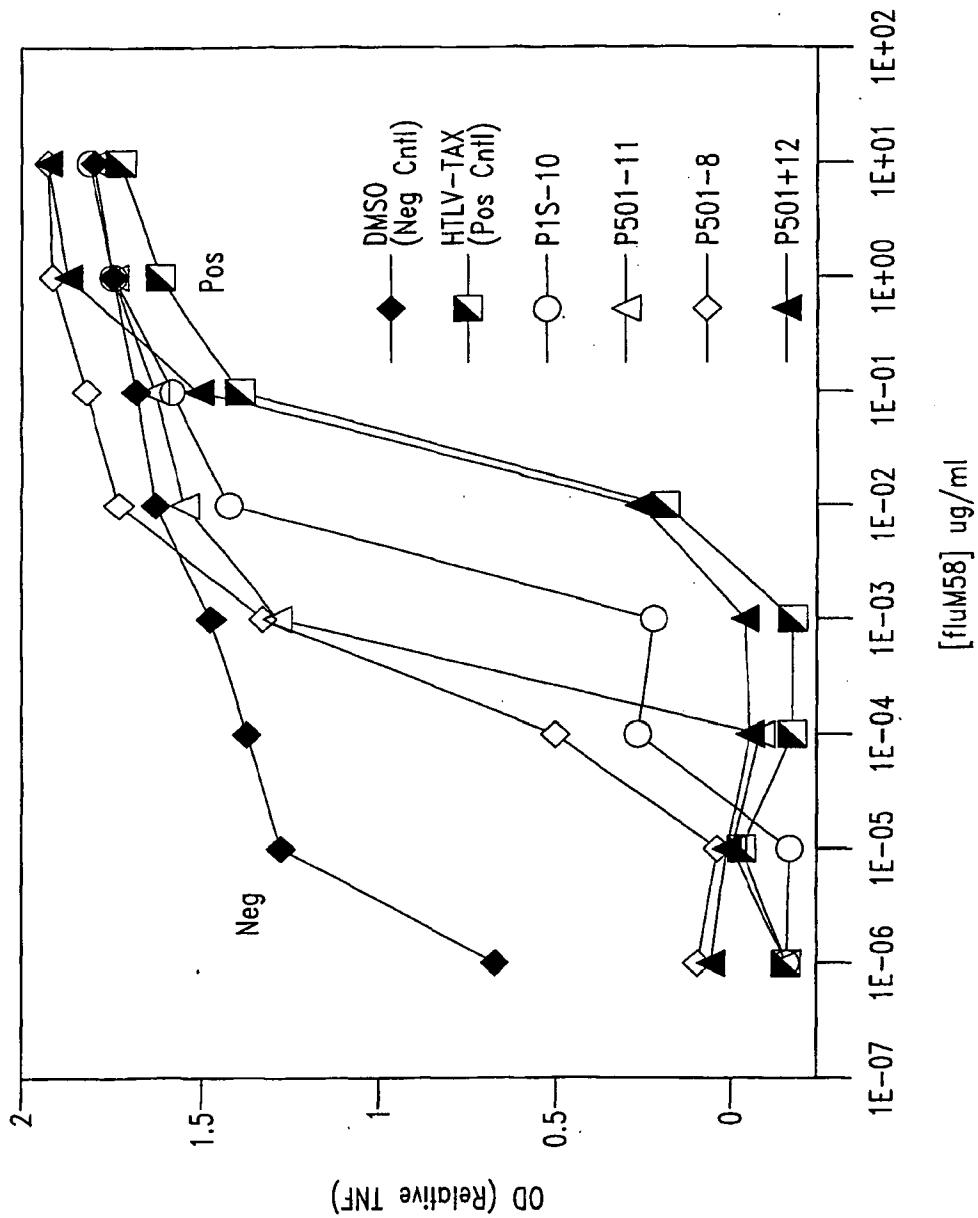


Fig. 3

4/10

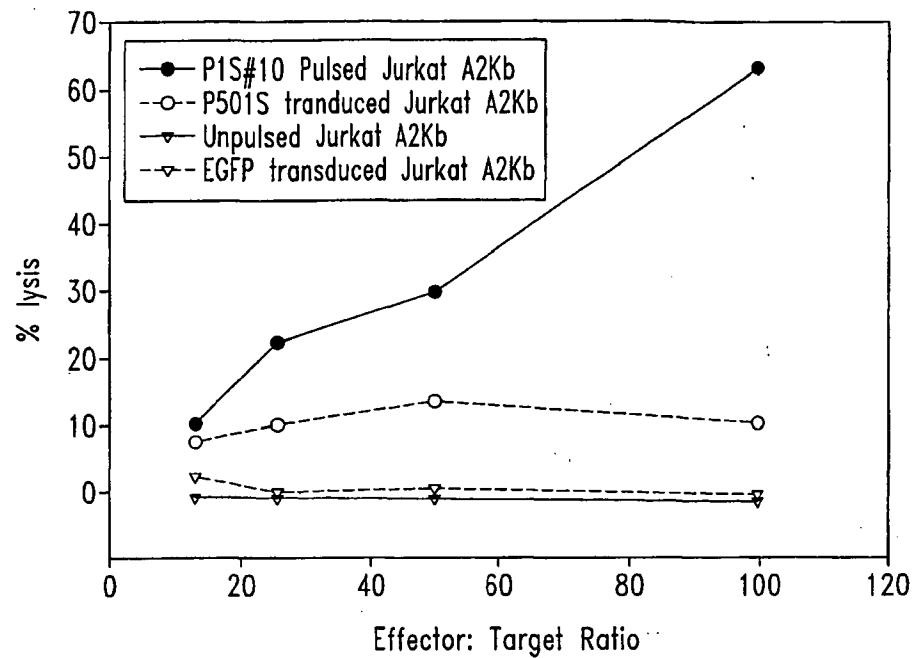


Fig. 4

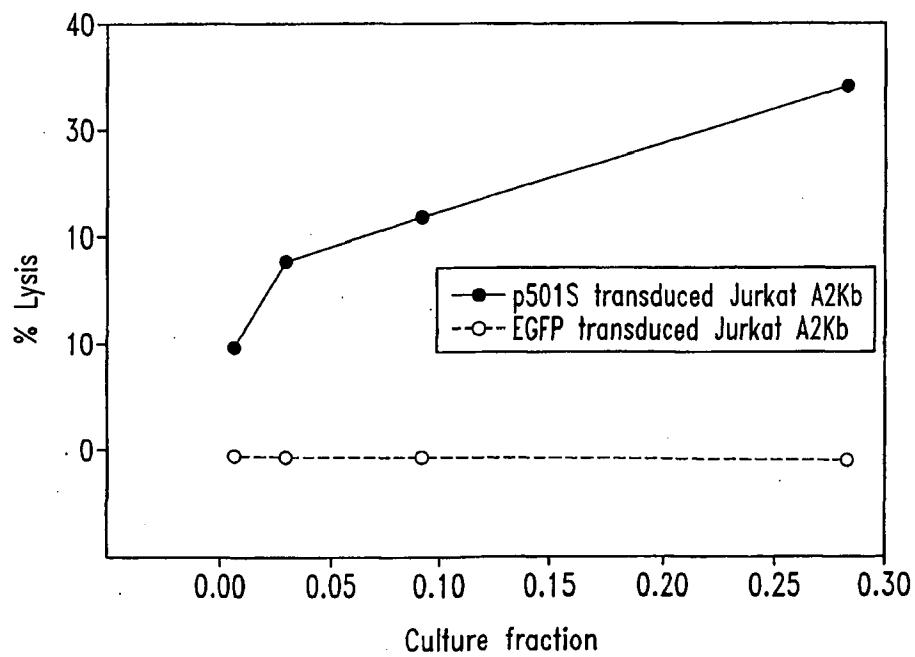


Fig. 5

5/10

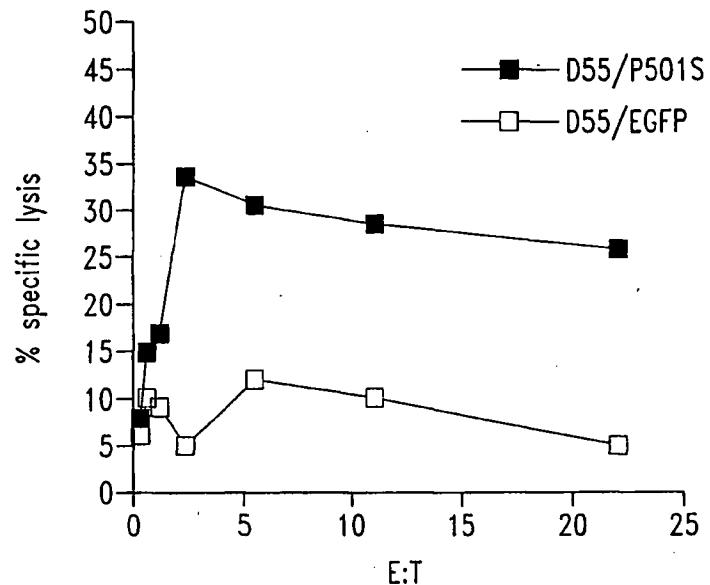


Fig. 6A

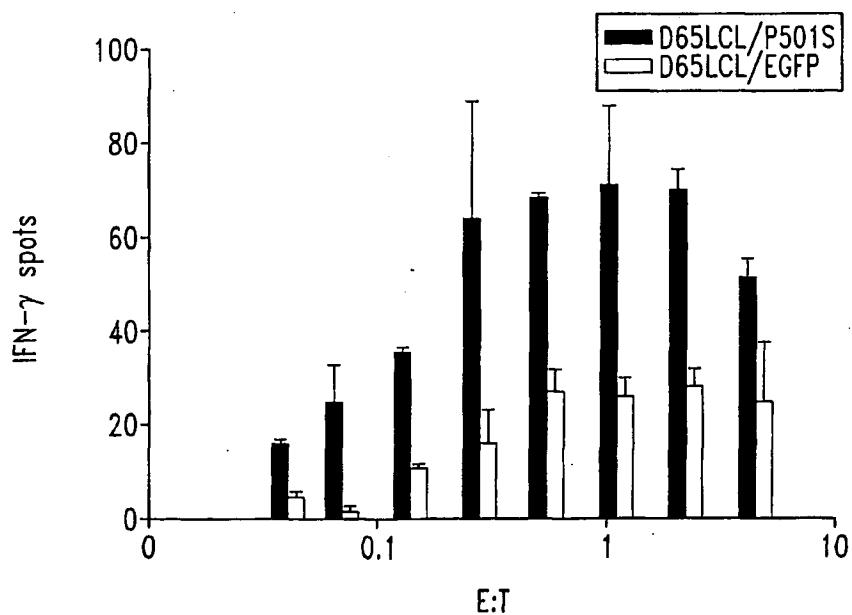
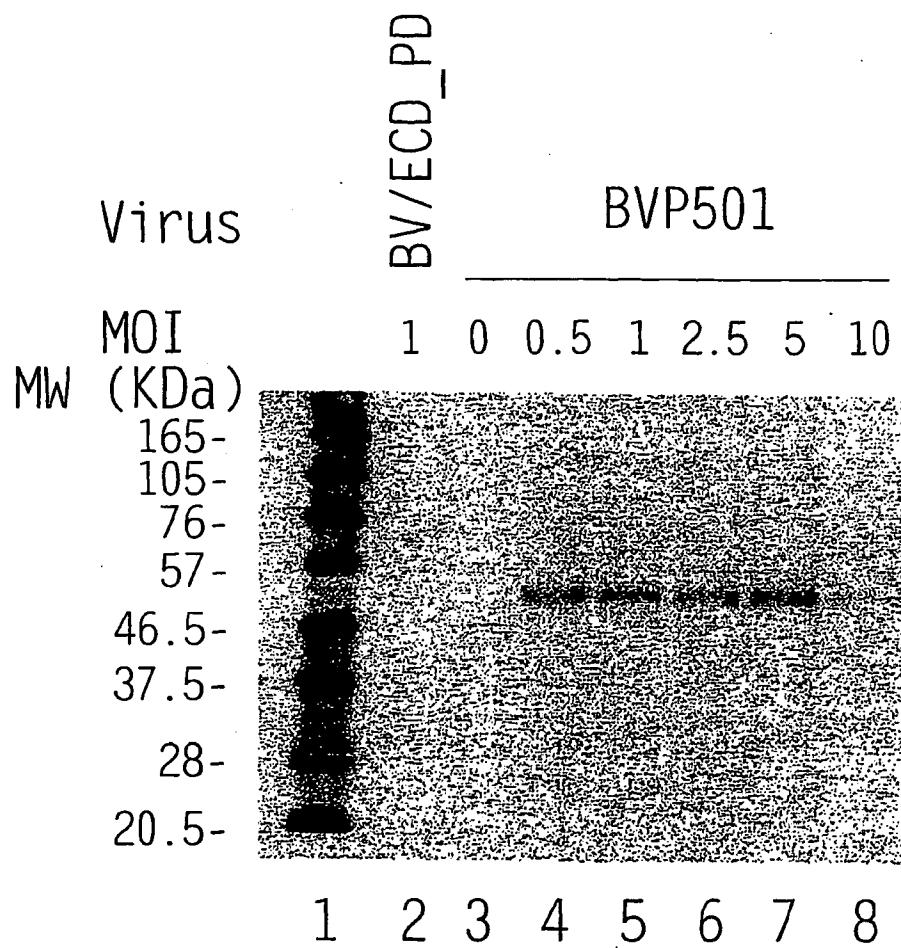


Fig. 6B

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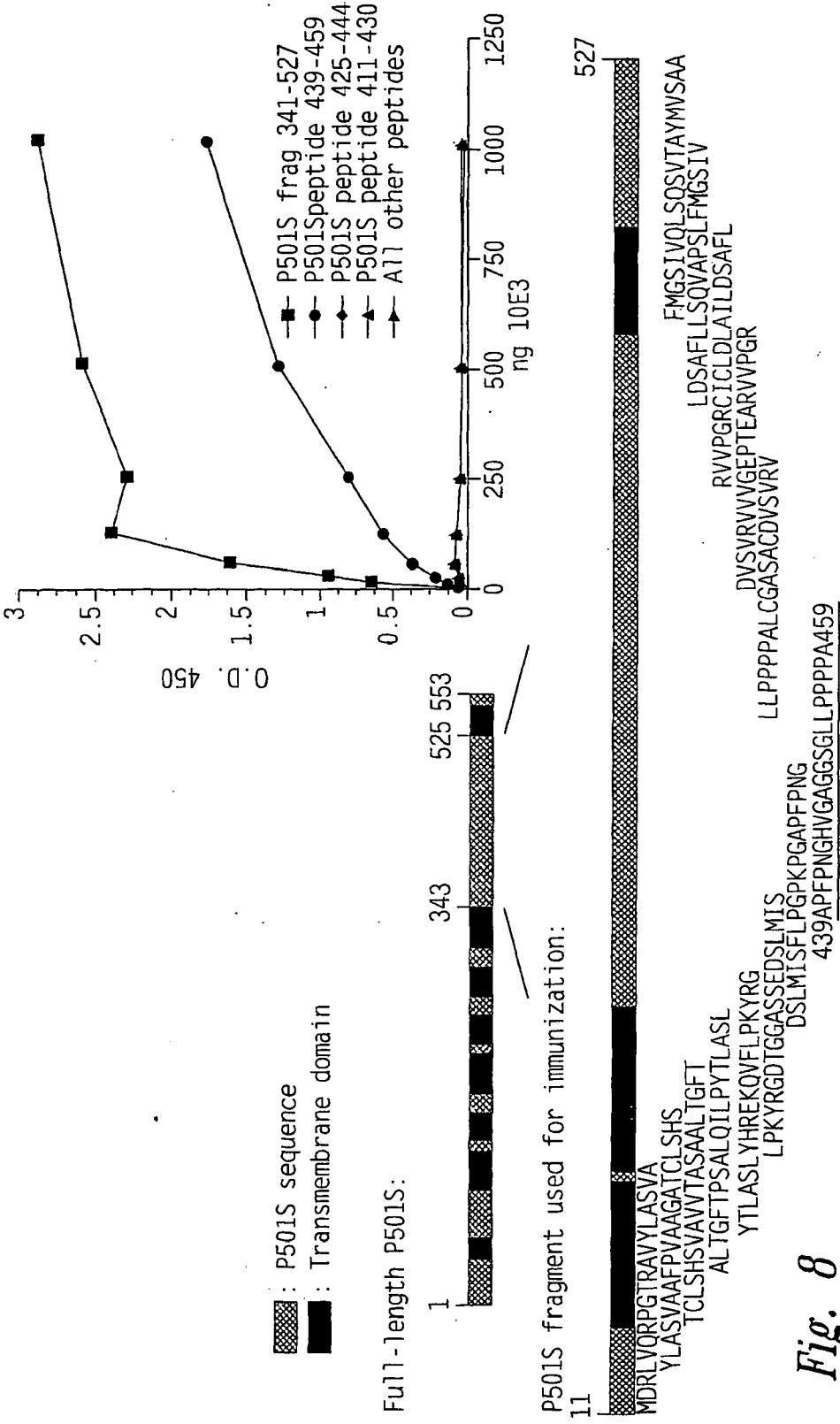
Expression of P501S
by the Baculovirus Expression System



C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

Fig. 7

FIGURE 8. Mapping of the epitope recognized by
10E3-G4-D3



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Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

MVQRLWVSRLLRHRK AQLLVNLLTFGLEVCLAAGIT YVPPPLLLEVGVEEKFM
TMVLGIGPVGLVCYPLLGAS

DHWRGRYGRRRP FIWALSLGILLSLFLIPRAGWL AGLLCPDPRPLE LALLILGVGLLDFCGQVCFTPL

EALLSDLFRDPDHCRQ AYSVYAFMISLGGCLGYLLPAI DWDT SALAPYLGTQEE

CLFGLLTLIFLTCAVATLLV AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL

HQLCCRMPTLRR LFVAELCSWMALMTFTLFYTDF VGEGLYQGVPRAEPEGTEARRHYDEGVR

MGSGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA SAA

LTGFTFSALQILPYTLASLY HREKQVFLPKYRGDTGGASSEDLSLMTSFLPGPKPGAPFNGHV GAGGSGL

LPPPPALCGASACDVSRVVVGEPETEARVVPGRG ICLDLAI LDSAFLLSQVAPS LF MGSIVQLSQS

VTAYMVSAAGLGLVAIYFAT QVVF DKS DLA KYS A

Underlined sequence: Predicted transmembrane domain; **Bold sequence**:
Predicted extracellular domain; *Italic sequence*: Predicted intracellular
domain. Sequence in bold/underlined: used generate polyclonal rabbit
serum

Localization of domains predicted using HMMTOP (G.E. Tusnady an I. Simon
(1998) Principles Governing Amino Acid Composition of Integral Membrane
Proteins: Applications to topology Prediction. J.Mol Biol. 283, 489-506.

Fig. 9

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Genomic Map of (5) Corixa Candidate Genes

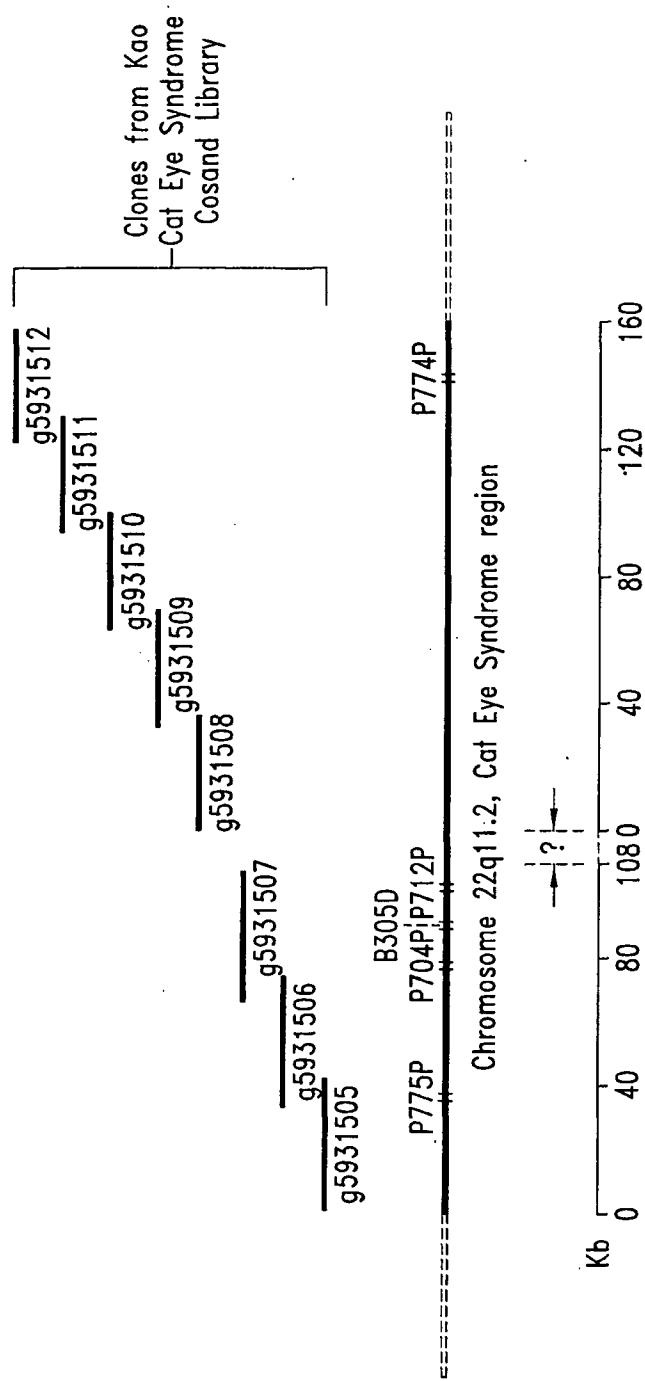


Fig. 10

10/10

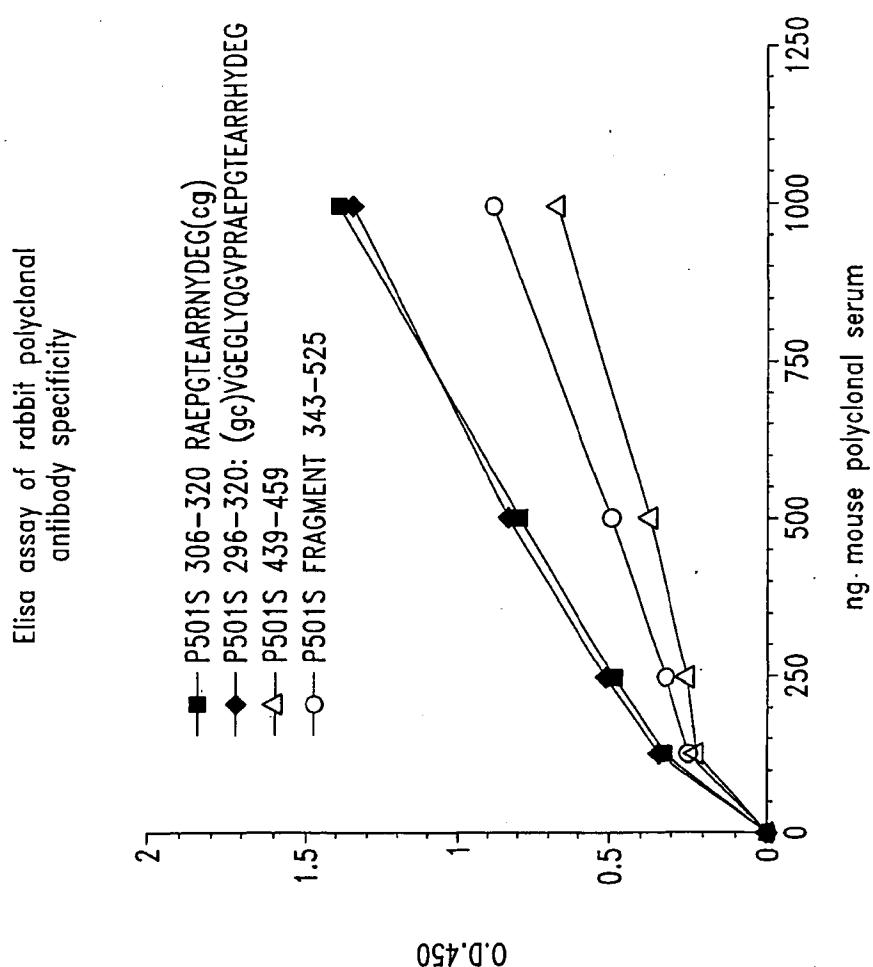


Fig. 11

SEQUENCE LISTING

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Dillon, Davin C.
Mitcham, Jennifer L.
Harlocker, Susan L.
Jiang, Yuqui
Reed, Steven G.
Kalos, Michael D.
Fanger, Gary R.
Retter, Marc W.
Stolk, John A.
Day, Craig H.
Skeiky, Yasir A.W.
Wang, Aijun
Meagher, Medeleine Joy
Vanderbrugge, Didier
Dewerchin, Marianne
Dehottay, Ph.
de Rop, Philippe

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
DIAGNOSIS OF PROSTATE CANCER

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<140> PCT

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<223> n = A,T,C or G

<400> 1

tttttttttt	tttttcacag	tataaacagct	ctttatttct	gtgagttcta	ctaggaaatc	60
atcaaatctg	agggttgtct	ggaggacttc	aatacacaccc	cccccatagt	gaatcagctt	120
ccagggggtc	cagttccctct	ccttacttca	tccccatccc	atgc当地	aagaccctcc	180
ctccctggct	cacagccttc	tcttagcttc	coagtgcctc	caggacagag	tgggttatgt	240
tttcagctcc	atccttgctg	tgagtgctg	gtgc当地	cctccagctt	ctgctcagtg	300
cttc当地	ggac	agtgtccagc	acatgtca	ctccactctc	tc当地gtgga	360
ctagagcg	ccgc当地	gtggagctcc	agctttgtt	ccctttagtg	agggttaatt	420
gc当地gttgg	cgtaatcatg	gtcataactg	ttc当地gtgt	gaaattgtta	tccgctcaca	480
atccacaca	acatacgagc	cggaagcata	aagtgtaaag	c当地gggtgc	ctaatgagtg	540
anctaactca	cattaattgc	gttgc当地	ctgnccgctt	tccagtc当地	aaaactgtcg	600
tgccagctgc	attaatgaat	cggccaacgc	nccggggaaaa	gcggttgcg	tttgggggc	660

tcttcggctt ctcgctcaact nantcctgcg ctcggtcntt cggctgcggg gaacggtata	720
actccatcaaa gnggtattt cggtatccn naaatcnggg gataaccnngg aaaaaanttt	780
aacaaaaggg cancaaaggg cngaaacgta aaaa	814

<210> 2
<211> 816
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 2

acagaaaatgt tggatggtgg agcacccccc tatacgactt acaggacagc agatggggaa	60
ttcatggctg ttggagcaat agaaccggc ttctacgagc tgctgatcaa aggacttgg	120
ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag	180
aagtttgcag atgtatggc aaagaagacg aaggcagagt ggtgtcaat ctttgacggc	240
acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac	300
aaggaacggg gctcggttat caccagttag gaggcaggacg tgagcccccg cccctgcaccc	360
ctgctgttaa acacccccc cccatccctt ttcaaaaaggg atccactagt tctagaagcg	420
ggcccccaccc cggtggagct ccagctttt ttcccttttag tgagggtaa ttgcgcgtt	480
ggcgtaatca tggtcatagc tggttccctgt gtgaaattgt tatccgcctca caattcccc	540
aacatacggc cccggacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn	600
cattaattgc tttgcgtca ctggccgtt tccagtcggg aaaactgtcg tgccactgcn	660
ttantgaatc ngccacccccc cgggaaaagg cggttgcntt ttgggcctct tccgccttcc	720
tcgctcattt atccctngcnc cccgttcccg gtcgcggng aacggttact cctcaaaggc	780
ggtnnccgg ttatccccaa acnggggata cccnnga	816

<210> 3
<211> 773
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3

cttttggaaag aaggatggc tgggggtttt aacagcagag gtgcaggcg ggggctcact	60
tcctgctcct cactgggtat aaacgagccc ctttccttgt tggatcatg atgaaacaacc	120
tcctcaaaag tcagaaccgg agtcacacag gcatctgtc cgtcaaatgt ttgacaccac	180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggcaatca	240
tccatgctca tctgatggg aagttcatca gacttagtgc canntccctt gatcagcagc	300
tcgttagaact ggggttctat tgctccaaaca gccatgaatt ccccatctgc tggctgtaa	360
gtcgatataaa aagggtgtcc accatccaac atgttctgtc ctcgaggggg ggcgggtac	420
ccaaatcgcc ctatantggg tcttattacg cgcgtcaact ggcgtcggtt ttacaacgtc	480
gtgactgggaa aacccctggg cgttaccaac ttaatcgct tgcagcacat cccctttcg	540
ccagctgggc gtaatancga aaaggccgc accgatcgcc cttccaaacag ttgcgcaccc	600
gaatgggnaa atgggacccc cctgttaccc cgcattnaac ccccgcnnggg ttngttgtt	660
accccaacnt nnaccgctta cactttgcca gcgccttanc gcccgcctccc ttccnccctt	720
ttcccttcc ttccnccccc cttccccc cttccccc cttccccc cttccccc cttccccc	773

<210> 4
<211> 828
<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) . . . (828)

<223> n = A, T, C or G

<400> 4

cctcgttgc	cctactgacc	tgtgctttct	ggtgtggagt	ccagggctgc	tagaaaaagg	60
aatgggcaga	cacagggtta	tgccaaatgtt	tctgaaaatgg	gtataatttc	gtcctctcct	120
tccgaacact	ggctgtctct	gaagacttct	cgctcaggtt	cagtgaggac	acacacaagg	180
acgtgggtga	ccatgttgtt	tgtgggggtgc	agagatggga	gggggtggggc	ccacccttgg	240
agagtggaca	gtgacacacaag	gtggacactc	tctacagatc	actgaggata	agctggagcc	300
acaatgcatg	aggcacacac	acagcaagga	tgacnctgtt	aacatagccc	acgctgtcct	360
gnngggactg	ggaagcttan	atnaggccgt	gagcanaaaag	aagggggagga	tccactagtt	420
ctanagccgc	cgccaccgcg	gtgganctcc	anctttgtt	cccttttagt	agggtaatt	480
gcgcgcctgg	cntaatcatg	gtcatanctn	tttccctgtgt	gaaattgtt	tccgcotcaca	540
attccacaca	acatacganc	cgaaaaacata	aantgtaaac	ctgggggtgcc	taatgantga	600
ctaactcaca	ttaattgcgt	tgcgctcaet	gcccccttcc	caatcnngaa	acctgtcttgc	660
ccncttgcat	tnatgaatcn	gccaaccccc	ggggaaaagc	gtttgcgttt	tgggcgcct	720
tccgcttccct	cnctcantta	ntccctncnc	tcggtcattc	cggtgcngc	aaaccggttc	780
accnccctcca	aagggggtat	tccggtttcc	ccnaatccgg	ggananc		828

<210> 5

<211> 834

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) . . . (834)

<223>.n = A, T, C or G

<400> 5

tttttttttt	ttttactga	tagatggaa	ttattaagct	tttcacatgt	gatagcacat	60
agtttaatt	gcatccaaag	tactaacaaa	aactctagca	atcaagaatg	gcagcatgtt	120
attttataac	aatcaaacacc	tgtggcttt	aaaatttggt	ttcataaga	taatttatac	180
tgaagttaat	ctagccatgc	ttttaaaaaa	tgcttaggt	cactccaagc	ttggcagtt	240
acatttggca	taaacaataa	taaaacaatc	acaatttaat	aaataacaaa	tacaacattg	300
taggccataa	tcatatacag	tataaggaaa	agggtgttagt	gtttagtaag	cagttattag	360
aatagaatac	cttggcctct	atgcaaataat	gtctagacac	tttatttcac	tcagccctga	420
cattcagttt	tcaaagttagg	agacaggttc	tacagtatca	ttttacagtt	tccaaacat	480
tgaaaacaag	tagaaaatga	tgagttgatt	tttattaatg	cattacatcc	tcaagagtta	540
tcaccaacccc	ctcagtata	aaaaattttc	aagtatatt	agtcatataa	cttggtgtgc	600
ttatTTTaaa	ttagtgtcaa	atggattaag	tgaagacaac	aatggcccc	taatgtgatt	660
gatattggtc	atTTTaccA	gcttctaaat	ctnaactttc	aggctttga	actggAACAT	720
tgnatnacag	tgttccanag	tttcaaccta	ctggAACATT	acagtgtgt	tgattcaaaa	780
tgttattttt	ttaaaaattta	aatttttaacc	tggggaaaaa	ataatttgaa	atna	834

<210> 6

<211> 818

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (818)

<223> n = A, T, C or G

<400> 6

tttttttttt	tttttttttt	aagaccctca	tcaatagatg	gagacataca	gaaatagtca	60
aaccacatct	acaaaatgcc	agtatcaggc	ggcgcttcg	aagccaaagt	gatgttgg	120
tgtaaagtga	aatattagtt	ggcgatgaa	gcagatagtg	aggaaagtgg	agccaataat	180
gacgtgaagt	ccgtggaaagc	ctgtggctac	aaaaaatgtt	gagccgtaga	tgccgtcgga	240
aatggtaaag	ggagactcga	agtactctga	ggcttgttagg	agggtaaaat	agagacccag	300
taaaatttta	ataagcagtg	cttgaattat	ttgggttcgg	ttgtttctta	ttagactatg	360
gtgagctcag	gtgattgata	ctcctgatgc	gagtaataacg	gatgtgttta	ggagtgggac	420
ttcttagggga	tttagcgggg	tgatgcctgt	tggggccag	tgcccctcta	tttttttttt	480
aggggctagg	ctggagtgg	aaaaggctca	gaaaaatcct	gcgaagaaaa	aaacttctga	540
ggtaataaat	aggattatcc	cgtatcgaag	gccttttgg	acaggtgggt	tgtgtggcc	600
ttggtatgt	ctttctcg	ttacatcg	ccatcattgg	tatatggta	gtgtgttgg	660
ttantangc	ctantatgaa	gaacttttg	antgaaatta	aatcaatngc	ttggccggaa	720
gtcattanga	nggtnaaaa	ggccctgtta	ngggctggg	ctnggttta	cccnacccat	780
ggaatncnc	ccccggacna	ntgnatccct	attcttaa			818

<210> 7

<211> 817

<212> DNA

<213> Homo sapien

52202

<221> misc feature

<222> (1) .. (817)

<223> n = A, T, G or G

<400> 7

tttttttttt	ttttttttt	ttggctctaga	ggggtagag	ggggtgctat	agggtaaata	60
cggggccat	ttcaaagatt	tttaggggaa	ttaattctag	gacgatgggt	atgaaaactgt	120
ggtttgc	acagatttca	gagcattgac	cgtagatac	ccccggctgt	gtagcggta	180
aagtggttt	gttttagacgt	ccgggaattt	catctgtttt	taagccta	gtggggacag	240
ctcatgat	caagacgtct	tgtgatgtaa	ttattatacn	aatggggct	tcaatcgga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgt	ggaattgaag	attaatccgc	cgtagtcgg	gttctctag	gttcaatacc	420
attggtgcc	aattgattt	atggtaagg	gaggatcgt	tgaactcgtc	tgttatgtaa	480
aggatncct	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
tcaaacngtc	tctanttcct	gaaacgtctg	aaatgttaat	anaattaan	ttngttatt	600
gaatnttng	aaaaaggggct	tacaggacta	gaaaccaa	angaaaanta	atnntaangg	660
cnttatcntn	aaaggtnata	accnctccta	tnatcccacc	caatngnatt	ccccacncnn	720
acnattggat	nccccanttc	canaaangc	cnccccccgg	tgnannccnc	cttttgttcc	780
cttnantgan	qgttattcnc	ccctngcnn	atcanc			817

<210> 8

<211> 799

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) .. (799)

<223> n = A, T, C or G

<400> 8

catttccggg	tttactttct	aaggaaagcc	gagcggaaagc	tgctaacgtg	ggaatcggtg	60
cataaggaga	actttctgt	ggcacgcgt	agggacaagc	gggagagcga	ctccgagcgt	120
ctgaagcgc	cgccccagaa	ggtggacttg	gcactgaaac	agctgggaca	catccgcgag	180
taclgaacagc	gcctgaaaagt	qctggagcqg	qagggtccagc	agtgtaqccq	cgttcctqqqq	240

tgggtggccg angcctganc cgctctgcct tgcgtcccc angtggccg ccacccctg	300
acctgcctgg gtccaaacac tgagccctgc tggcgactt caagganaac ccccacangg	360
ggattttgtct cctanantaa ggctcatctg ggctcggcc ccccaacctg gttggccttg	420
tctttgangt gagccccatg tccatctggg ccactgtcng gaccacctt nggagtgtt	480
ctccttacaa ccacannatg cccggctctt cccggaaacc antcccanc tgngaaggat	540
caagnccctgn atccactnt nctanaaccc gcnccnccg cngtggAACCC cnccctntgt	600
tcctttcnc ttagggtaa tnncgccttg gccttnccan ngtcctncn ntttccnnt	660
gttnaaattt tgangcnccc nccnntccn cnncnnnan cccgaccnn anntnnann	720
ncctgggggt nccnnncngat tgaccnncc nccctntant tgcnttnggg nnccnntgccc	780
ctttccctct ngggannnc	799

<210> 9
<211> 801
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

<400> 9	
acgccttgat cctcccgaggc tggactggc tctgggagga gcccggcatg ctgtggtttgc	60
taangatgac actcccaaag gtggcctgat cagtggccca gatggacatg gggctcacct	120
caaggacaag gccaccaggc gcggggggccg aagccacat gatcctact ctatgagcaa	180
aatcccctgt gggggcttc cttgaagtc cggcancagg gctcagtctt tgacccang	240
caggcatgg gttgtngnc caactggggg ccncaacgca aaanggcna gggctcngn	300
caccatccc angacgcggc tacactnctg gaccccccnc tccaccactt tcacgcgtcg	360
ttcnatcccg cgnatntgat ccancgttt cngtgcnc ac tccancttct nggacgtgcg	420
ctacatacgc cccggantcnc nctcccgctt tgccctatc cacgtncan caacaaattt	480
cnccntantg caccnattcc acnnttnc agntttccnc nncgngcttc ttntaaaag	540
ggttganccc cggaaaatnc cccaaagggg gggggccnng taccactn cccctnata	600
gctgaantcc ccatnacnn gnctcnatgg ancentcnc ttannacn ttetnaactt	660
ggaaananc ctcgnccntn ccccnntaa tcccncttgc cnangnnct ccccnntcc	720
nccnnntng gcnttnann cnaaaaaggc cccnnanacn tctcctnncc cctcancatcg	780
ccancctcg aaatcgccn c	801

<210> 10
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 10

cagtttatnt ggccagtgtg gcagcttcc ctgtggctgc cgggccaca tgctgtccc	60
acagtgtggc cgtggtgaca gttcagccg ccctcaccgg gttcacccctc tcagccctgc	120
agatccctgcc ctacacactg gcctccctt accaccggg gaagcagggtg ttctgccc	180
aataccgagg ggacactgg ggtcttagca gtgaggacag cctgatgacc agttccctgc	240
cagggcctaa gcctggagct ccctcccta atggacacgt gggtgctgg ggcagtggcc	300
tgctcccacc tccaccggc ctctggggg cctctgcctg tgatgtctcc gtacgtgtgg	360
tggtggtga gcccacggan gccagggtgg ttccggccg gggcatctgc ctgacccctcg	420
ccatccctggc tagtgcctcc tgctgtccca ngtggcccca tccctgttta tggctccat	480
tgtccagctc agccagtctg tcaactgccta tatgggtct gccgcaggcc tgggtctgg	540
cccatattact tgctacaca ggtantattt gacaagaacg anttggccaa atactcagcg	600

ttaaaaaatt ccagcaacat tgggggtgga aggccgcct cactgggtcc aactccccgc	660
tcctgttaac cccatggggc tgccggcttg gcccattt ctgttgctg ccaaantnat	720
gtggctctct gttgccacct ttgtggct gaagtgcnta cngncancnt nnnnnnnnng	780
ggngttccc	789

<210> 11
<211> 772
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 11

cccacccctac ccaaataattt gacaccaaca cagaaaagct agcaatggat tcccttctac	60
tttgttaaat aaataaggta aatattttaa tgccctgtgtc tctgtgtatgg caacagaagg	120
accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc	180
tgtggctga ggggacctgg ttcttggtt tgccccctca ggactcttcc cctacaaaata	240
acttcataat gttcaaatcc catggaggag ttgttcatcc tagaaactcc catgcaagag	300
ctacattaaa cgaagctgca ggttaagggg cttaanatgt gggaaaccagg tgactgagtt	360
tattcagctc cccaaaaacc ttctcttaggt gtgtctcaac taggaggcta gctgttaacc	420
ctgagcctgg gtaatccacc tgccatgtcc cccgatttca gtgcattggaa cccttctggc	480
ctccctgtat aagtccagac tgaaacccccc ttggaaaggnc tccagtcagg cagccctana	540
aactggggaa aaaagaaaaag gacgccccan ccccccagctg tgcanctacg cactctcaaca	600
gcacagggtg gcaaaaaaaa aaccacttta ctttggcaca aacaaaaact nnnnnnnnca	660
acccggcac cccnanggg gttaacagga ancngggnaa ctttggcaca aattnaggca	720
ggcccnccac cccnaatntt gtttggaaat ttttctccc cttaaattntt tc	772

<210> 12
<211> 751
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 12

gcccccaattc cagctgccac accacccacg gtgactgcat tagttcggt gtcataaaaa	60
agctgattga agcaaccctc tacttttgg tcgtgacgct ttgttgcgtt gcaaggttca	120
ttggctgtgt ttgtgacgtt gtcattgcaaa cagaatgggg gaaaggact ttgttgcgtt	180
aagtanggtg agtcctcaaa atccgtatag ttgttgcgtt cacagcactt gagcccttcc	240
atgggttgtt tccacacttg agtgaagtct ttgttgcgtt cataatcttt ctgtatggca	300
ggcactacca gcaacgtcag ggaagtgcgt accattgtg gtgtacacca aggcgaccac	360
agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgaggc	420
acacttgctc tcaatgttcc caccatanca gcccatttca accaananca aagaccacna	480
cncggctgc gatgaagaaa tnaccccnccg ttgacaaaact tgcatggcac tgganccac	540
agtggcccnna aaaatcttca aaaaggatgc cccatcnatt gaccccccac atgcccactg	600
ccaacagggg ctgccccacn cncnnaacga tgancnatt gnacaagatc tnctngtct	660
tnatnaacnt gaaccctgon tnktggctcc ttgttgcgtt cnnggcctga cttctnaann	720
aangaactcn gaagnccca cngganannnc g	751

<210> 13
<211> 729
<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 13

gagccaggcg tcccactca	gtggcaacac	ccgggagctg	ttttgtcctt	60
tgtgancct cagcagtncc	ctcttcaga	actcantgcc	aagancctg	120
accatgcagt gttcagctt	cattaagacc	atgatgatcc	tcttcaattt	180
ctgtgtggtg cagccctgtt	ggcagtggc	atctgggtgt	caatcgatgg	240
ctgaagatct tcgggccact	gtcgccagt	gccatgcagt	ttgtcaacgt	300
ctcatcgca	ccggcggtgt	ggtcttagct	ctaggttcc	360
actgagagca	agtgtccct	cgtgacgttc	ttcttcatcc	420
gagggtgcaa tgctgtggtc	gccttgggt	acaccacaat	ggctgagcac	480
tgctgttaat gcctgccatc	aanaaaagat	tatgggttcc	caggaanact	540
gttgaacac caccatgaaa	gggctcaagt	gtctggctt	tcactcaagt	600
gaagantcac ctacttcaaa	aaaaanagt	cctttcccc	atttctgtt	660
acgtcccaa cacagccaat	tgaaaacctg	cacccaaccc	aaanggtcc	720
attnaaggg				729

<210> 14

<211> 816

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

tgtcttcct caaagttgtt	tttgtgcca	taacaaccac	cataggtaaa	60
tgttcgtga aggggttgta	gtaccagcgc	gggatgctct	cttgcagag	120
ggcaggtcca cgcagtgcc	tttgtactg	ggaaatgg	tgcgtggag	180
ccactcgtgt	attttcaca	ggcagctcg	tccgacgcgt	240
tcacactcca	gaaaactgtc	natgcagcag	ccattgctgc	300
canagtccag	agcacactgg	atggcgcett	tccatgnnan	360
tganccccan	anctgcctct	caaangcccc	acattgcaca	420
atcttcttcc	cgaaaggttag	ttnttctgt	tgcccaancc	480
gcanatctgc	tccgnnnnnn	tcntantacc	ancgtggaa	540
caancttgtt	tggatncgaa	gcnataatct	nctnttctgc	600
ctgttnanct	ttagnccntg	gtcctcntgg	ttggtgacaca	660
gggacaagg	aatngccnt	cctttnaatt	cccnancntn	720
cncnctcccta	ccccagaaa	nccgtgttcc	cccccaacta	780
cacaaccctn	ccccacccac	gggttcngnt	gggttng	816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

ccaaggcctg	ggcaggcata	nacttgaagg	tacaacccca	ggaaccctg	gtgctgaagg	60
atgtggaaaa	cacagattgg	cgcctactgc	gggggtacac	ggatgtcagg	taagagagga	120
aagacccaaa	ccaggtggaa	ctgtgggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtactag	ctcagacccac	ccagaggaca	cggccaacgt	cacagtca	gtgctgtcca	240
ccaagcagac	agaagactac	tgcctcgcat	ccacacaangt	gggtcgctgc	cggggcttctt	300
tcccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcgtt	tatggaggct	360
gettggcaa	caagaacaac	taccttcggg	aaaagagtg	cattctancc	tgctcngggtg	420
tgcaaggtgg	gcctttgana	ngcanctctg	gggctcangc	gactttcccc	cagggccct	480
ccatggaaag	gogccatcca	ntgttctctg	gacacctgtca	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcacnac	antttctng	aattgtgaca	acaccccca	ntgcccccaa	600
ccctccaaac	aaagcttcccc	tgttnaaaaa	tacnccantt	ggcttttnac	aaacnccccc	660
cncctccnnt	ttccccnnnt	aacaaggc	nctngcnntt	gaactgccc	aaccnnggaa	720
tctnccnngg	aaaaantncc	ccccctgggt	cctnnaanc	cctcccncaa	anctncccc	780
ccc						

<210> 16

<211> 801
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(801)
 <223> n = A,T,C or G

<400> 16

gccccaaattc	cagctgccac	accacccacg	gtgactgcat	tagttcgat	gtcataaaaa	60
agctgattga	agcaacccctc	tacttttgg	tctgtgacgtt	tttgcttgg	gcagggttca	120
ttggctgtgt	tgggtgacgtt	gtcattgca	cagaatgggg	gaaaggact	tttcttttg	180
aagttagggt	agtcctcaaa	atccgtatag	tttgtgaagc	cacagcactt	gagcccttcc	240
atgggtgtgt	tccacacttg	agtgaagtct	tcctgggaaac	cataatctt	tttgcattggca	300
ggcactacca	gcaacgtca	gaagtgtca	gccattgtgg	tgtacaccaa	ggcggaccaca	360
gcagctgca	cctcagcaat	gaagatgagg	aggaggatga	agaagaacgt	cncgagggca	420
cacttgctct	ccgtcttagc	accatagcag	ccangaaac	caagagaaaa	gaccacaacg	480
ccngctgcga	atgaaagaaa	ntaccacgt	tgacaaactg	catggccact	ggacgacagt	540
tggcccgaa	atcttcagaa	aaggatgcc	ccatcgattt	aacacccana	tgcccactgc	600
cnacaggcgt	gcncncncon	gaaagaatga	gccattgaag	aaggatcn	ntgtcttaa	660
tgaactgaaa	cntgcatgg	tggccctgt	tcagggctt	tggcagtgaa	ttctganaaa	720
aaggaacngc	ntnagcccc	ccaaangana	aaacaccc	gggtgttgcc	ctgaattggc	780
ggcaaggan	ccctgcccc	g				801

<210> 17

<211> 740
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 17

gtgagagcca	ggcgccccctc	tgcctgccc	ctcagtgcc	acacccggga	gctgttttgt	60
cctttgtgga	gcctcagcag	tccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgcctca	gttcattaa	gaccatgtat	atcccttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tgttgccgt	ggcatactgg	gtgtcaatcg	atggggcata	240
ctttctgaag	atcttcgggc	cactgtcg	cagtgcct	cagtggctca	acgtgggcta	300

cttcctcato	gcagccggcg	ttgtggtctt	tgccttttgt	ttcctggct	gctatggc	360
taagacggag	agcaagtgtg	ccctcggtac	gttcttcttc	atcctctcc	teatcttcat	420
tgctgaagtt	gcagctgtg	tggtgcgcctt	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgcgt	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcaactc	540
aanntggaa	caccnccatg	aaaagggctc	caatttctgn	tggctttccc	aactataccg	600
gaattttgaa	agantcnccc	tactttccaaa	aaaaaanant	tgcctttncc	cccttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaaa	gnntcncaaaa	720
caaaaaaaaaa	nnaagggttn					740

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 18

ccgctgggtg	cgctggtcca	gngnagccac	gaagcacgtc	agcatacaca	gcctcaatca	60
caaggcttcc	cagctggcgc	acattacgc	ggcaagagc	ctccagcaac	actgcataatg	120
ggatacactt	tactttagca	gccagggtga	caactgagag	gtgtcgaaac	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtatcgacgt	tatgtccccat	240
aagcaaacac	tgtgagcagc	cggaaggtag	aggcaaaatc	actctcagcc	agctctctaa	300
cattggccat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	gcccagcgt	gcccccttgg	ccgacttggc	taggacaga	aattgctct	420
ggttctgccc	tgtcaccttc	acttccgcac	tcatcactgc	actgagtgtg	gggacttgg	480
gctcaggatg	tccagagacg	tggttccggc	ccctcnctta	atgacaccgn	ccanncaacc	540
gtcggtctcc	gcccantng	tgcgtcgnc	ctgggtcagg	gtctgctggc	cnctacttgc	600
aancttcgtc	nggcccattgg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccggncgc	caccgcnnnt	ggaactccac	tcttnnncc	tttacttgag	ggttaaggtc	720
acccttnncg	ttaccttggt	ccaaaccntr	ccntgtgtcg	anatngtnaa	tcnggnccna	780
tnccancnc	atangaagcc	ng				802

<210> 19
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 19

cnaagcttcc	aggtnacggg	ccgcnaancc	tgacccnagg	tancanaang	cagnncngcgg	60
gagcccaccc	tcacgngng	gngtctttat	ngagggggc	ggagccacat	cnctggacnt	120
cntgacccca	actccccncc	ncncantgca	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaanno	tgcctcnntc	caagtccggc	nagggggcgg	ggctggccac	240
gcncatccnt	cnagtgctgn	aaagccccnn	cctgtctact	tgtttggaga	acngcnnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgcc	tctcccttcc	ggctgcgcac	360
cgngrntgct	tagnggacat	aacctgacta	cttaactgaa	cccnngaatc	tnccnccct	420
ccactaaagct	cagaacaaaaa	aaccttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnnttangt	tcggtcctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctt	gctccctgna	acaancnacc	600
cnnccnntcca	agggggggnc	ggcccccata	ccccccaaacc	ntnaattnan	tttancnnccn	660
ccccccngcc	ccgcctttta	cnancntcnn	nnacngggna	aaaccnnnngc	tttncccaac	720

nnaatccncc t

731

<210> 20
<211> 754
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 20

tttttttttt tttttttttt	aaaaaacccc	ctccattnaa	tgnaaaacttc	cgaatttgc	60
caacccctc	ntccaaatnn	ccnttccgg	gnnggggttc	caaaccsan	120
annttaaatt	aatnttnnt	tggngnnna	anccnaatgt	nangaaagtt	180
tnancctnaa	tncctggaaa	ccngtngntt	ccaaaaatnt	ttaaccctta	240
aaatngttna	nggaaaaccc	aanttctcnt	aagggttgtt	gaaggntnaa	300
nnccaattgt	tttngccac	gcctgaatta	atggnttcc	ntaaaaanaa	360
ggnnanccccc	ggttantnaa	tcccccnnc	cccaattata	ccgantttt	420
ganccncgg	gaattaacgg	ggnnnntccc	tnttgggggg	cnngnnccccc	480
ggttngggnc	aggncnnaat	tgtttaaggg	tccgaaaaat	ccctccnaga	540
ccaggnntgag	nntngggttt	ncccccnc	cangggccct	ctcgnanagt	600
ggggcctggg	atttntttc	ccctnttnc	tccccccccc	ccnggganag	660
tttgnctnn	gccccnccon	aagancttn	ccganttnan	ttaaatccnt	720
agtccnttgn	agggntaaan	ggccccctnn	cggg	gcctnggcga	754

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 21

atcancccat	gaccccnaac	nngggaccnc	tcancggnc	nnncnaccnc	cggccnatca	60
nngtagnnnc	actncnntt	natcacncc	cnccnactac	gcccncnanc	cnacgcncta	120
nncanatncc	actganngcg	cgangtngan	ngagaaanct	nataccanag	ncaccaanacn	180
ccagctgtcc	nanaangcct	NNNatacngg	nnnatccaat	ntgnancctc	cnaagtattn	240
nncnnccanat	gattttccctn	anccgattac	ccntcccccc	tanccctcc	cccccaacna	300
cgaaggcnct	ggncnnaagg	nngcgncc	ccgctagntc	cccnncncaagt	cncncncta	360
aactcanccn	nattacncgc	ttcntgagta	tcactccccg	aatctcaccc	tactcaactc	420
aaaaanatcn	gataaaaaat	aatncaagcc	tgnttatnac	actntgactg	ggtctctatt	480
ttagnggtcc	ntnaancntc	ctaatacttc	cagtctnct	tcnccaaattt	ccnaanggct	540
ctttcngaca	gcatnttttg	gttcccnntt	ggttcttan	ngaattgccc	ttcnntngaac	600
gggctcnct	tttccttcgg	ttancctggn	ttcnncggc	cagttattat	ttcccnnttt	660
aaattcnnc	cnttatttt	tggcnnccna	aaccccccggc	cttgaaaacg	gccccctgg	720
aaaaggttgt	tttganaaaa	tttttgttt	gttcc			755

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G

<400> 22

tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgc	ctnggan	taangcgacc	cganttctag	gannccnccct	aaaatcanac	120
atcc	tgnnnna	cggaaanggtc	accgggnngat	nntgcttaggg	tgncnctcc	180
cataactcng	nggcctgcc	caccacccctc	ggcggcccng	ngnccgggccc	cgggtcattn	240
gnnttaaccn	cactnnnena	ncggtttccn	nccccnnnccng	accnngcga	tccggggtn	300
tctgtcttcc	cctgnagncn	anaaaantggg	cencggnccc	ctttaccctt	nnacaagcca	360
cngccntcta	ncncnccccc	cccctccant	nnnggggact	gcnannngct	cggttnctng	420
nnacccnnn	gggtncctcg	gttgtcgant	cnacgnang	ccanggattc	cnaaggaagg	480
tgcgttnttgc	gccccctaccc	ttcgtcnccgg	nnaccccttc	ccgacnanga	ncgcgtcccg	540
cncnccnccn	cctcnccctcg	caacacccgc	netcntcngt	ncggnnnccc	ccccacccgc	600
nccctcnccn	ngncgnancn	ctccnccncc	gtctcannca	ccaccccgcc	cgcccaggcc	660
ntcanccacn	ggnngacnng	nagcncnntc	genccgcgen	gcnncnccct	cgccncngaa	720
ctnentcnngg	ccanhnncgc	tcaanccnna	cnnaaacggcc	ctgcgcggcc	cgnagcgncc	780
ncctccnccga	gtcctcccg	ttccnaccc	angnnttccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23
 <211> 872
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(872)
 <223> n = A,T,C or G

<400> 23

gcgcaaacta	tacttcgctc	gnactcgtgc	gcctcgctnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattinggc	ngatatcnan	aagntcganc	agtccaaact	gantaacaca	120
cacacncnan	aganaaaatcc	ntgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcggccca	atntgtncc	gtttattnn	ccagcntcnc	240
ctnccnaccc	tacntcttcn	nagctgtcnn	accctngtn	cgnacccccc	nagtcggga	300
tcgggtttnn	nntgaccng	nnccccctcc	cccccncat	nacgancnc	ccgcaccacc	360
nanngcncgc	nccccgnnc	tttcgncc	ctgtccttn	ccccgtngc	ctggcncngn	420
acccgattga	ccctcgccn	ctncnngaaa	ncgnanacgt	ccgggttg	annancgctg	480
tgggnnngcg	tctgcncgc	gttccttccn	ncnncttcc	ccatcttnt	tacnggtct	540
ccncgcnc	tcnnncacnc	cctgggacgc	tntcctntgc	cccccttnac	tccccccctt	600
cgncgtgncc	cgnccccacc	ntcattnca	nacgnttcc	acaannncct	ggntnnctcc	660
cnancngncn	gtcancncnag	ggaagggnng	ggnnccnntg	nttgacgttg	ngngangtc	720
cgaanantcc	tcnccntcan	cnctaccct	cggcgnct	ctcngttncc	aacttancaa	780
ntctccccc	ngngcncntc	tcagcctcnc	ccnccccc	ctctgcant	tnctctgtc	840
tnaccnntac	gantnttgc	cncccttcc	cc			872

<210> 24
 <211> 815
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 24

gcatgcaagc tttagtattc tatagngtca cctaaatanc	ttggcnata catggctnta	60
nctgnettcc tggtaaat gtatacnaan tanatatgaa	tctnatnrga caaganngta	120
tcntncatta gtaacaantg tnntgtccat cctgtcngan	canattccca tnnattnccn	180
cgcattcncn gcncantatin taatngggaa ntcnnntnnn	ncaccnncat ctatcncc	240
gcncctgac tggngagat ggatnantic tntntgacc	nacatgtca tcttgattn	300
aananccccc cgcnngccac cgggttngnng cnagccnntc	ccaagacctc ctgtggaggt	360
aacctgcgtc aganncatca aacntggaa acccgcnnc	angtnnaagt ngnnncanan	420
gatcccgtcc aggnntnacc atccctcnc agcgccccct	ttngtgccctt anagnnagc	480
gtgtccnanc cnctcaacat ganacgcgc agnccanccg	caattnngca caatgtcgnc	540
gaaccccccta ggggantna tncaaanccc caggattgto	cncncangaa atcccncanc	600
cccnccctac ccnncttgg gacngtgacc aantcccgaa	gtnccagtcc ggcngnctc	660
ccccaccggg nnccntgggg gggtaanact cngnntcanc	cngncgaggn ntgcnaagga	720
accggncctn ggncaanng ancnntcnga agngccnct	cgtataaccc ccctcncca	780
nccnacngnt agntcccccc cngggtnccg aangg		815

<210> 25

<211> 775

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...,(775)

<223> n = A,T,C or G

<400> 25

ccgagatgtc tcgctccgtg gccttagctg tgctcgcgct	actctctctt tctggcctgg	60
aggctatcca gcgtaactcca aagattcagg ttactcacg	tcatccagca gagaatggaa	120
agtcaaattt cctgaattgc tatgtgtctg gtttcatcc	atccgacatt gaanttgact	180
tactgaagaa tgganagaga attgaaaaag tggagcattc	agacttgtct ttcagcaagg	240
actggcttt ctatctcntg tactacactg aattcacccc	cactgaaaaa gatgagtgat	300
cctggcgtgt gaaccatgtg actttgtcac agcccaagat	agttaaatgg gatcgagaca	360
tgtaaacgagn cnncatggaa gtttgaagat gccgcattt	gattggatga attccaaatt	420
ctgcttgctt gnntttat antgatatgc ntatacaccc	taccctttat gnccccaat	480
tgtaggggtt acatnancgt tcncntngga catgatctc	ctttataant ccncnttcg	540
aattgcccgt cnccngttn ngaatgttc cnnaaccacg	gttggctccc ccaggtcncc	600
tcttacggaa gggctgggc cncttncaa gttggggga	accnaaaaatt tcnctntgc	660
ccnccncca cnntcttng nncncanitt ggaacccttc	cnattccctt tggctcnna	720
nccctnncta anaaaaacttn aaancgtngc naanntttn	acttcccccc ttacc	775

<210> 26

<211> 820

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(820)

<223> n = A,T,C or G

<400> 26

anattantac agttaatct tttccagag gtgtgtanag	ggaacggggc ctagaggcat	60
cccanagata ncttatanca acagtgtctt gaccaagagc	tgctgggcac atttcctgca	120
gaaaaggtgg cggccccat cactcctcct ctcccatagc	catcccaagag gggtagtag	180
ccatcangcc ttccgtggga gggagtcang gaaacaacan	accacagagc anacagacca	240
ntgatgacca tggggggag cgagctctt ccctgnaccg	gggtggcana nganagccta	300
nctgaggggt cacactataa acgttaacga ccnagatnan	cacctgcttc aagtgcaccc	360

tccctacctg acnaccagng accnnnaact gcngcctggg gacagnctg ggancagcta	420
acnnagact cacctgcccc cccatggccg tncgntccc tggtcctgnc aaggaaagct	480
ccctgttggaa attncgggga naccaaggga nccccctcct ccanctgtga agaaaaaann	540
gatggaattt tncccttccg gccnntcccc tcttccttta cacgccccct nntactcntc	600
tccctctntt ntctgnncncc acttttnacc ccnnnatttc ccttnattgtc tcggannctn	660
ganattccac tnncgcctnc cntenateng naanachnaaa nactntctna cccnggggat	720
gggnncctcg ntcatccctt cttttcnct accnccnntt cttdgcctt ccttngatca	780
tccaaccntc gntggccnntn cccccccnnn tcctttnccc	820

<210> 27
<211> 818
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 27

tctgggtat ggcctttcc tcctcagggc cctctgactg ctctgggcca aagaatctct	60
tgtttcttct ccgagccca ggcagcggtg attcagccot gcccaacctg attctgatga	120
ctgccccatgc tgtgacggac ccaagggca aatagggtcc cagggctccag ggaggggcgc	180
ctgctgagca cttccgcctt tcaccctgcc cagccctgc catgagctct ggctgggtc	240
tccgcctcca gggttctgtc cttccangca ngccancaag tggcgctggg ccacactggc	300
ttcttcctgc ccctccctg gctctgantc tctgttcc tgcctgtgc angcnccttg	360
gatctcagtt tccctcnctc annaactct gtttctgann tcttcantta actntgantt	420
tatnacnan tggncgttnc tgtnactt taatggccn gaccggctaa tccctccctc	480
nctcccttcc anttcnnnna accngcttnc cntctctcc ccttccccc ccngggaaanc	540
ctcccttgcc ctnaccangg gccnnnaccc ccctnnctn gggggcnnn gtnnctnc	600
ctgtnnnccc cnctcnctt tncctcgcc cnccnnccn nngcannttc nengtccnn	660
tnnctcttten ngtntcgnaa ngntcnctn tnnnnnnncn ngntnnntcn tccctctcnc	720
cnnntgnang tnntnnnnnc ncngnncccc nnncnnnnn nggnntnnn tctncncngc	780
ccnncccccc ngnattaagg cctccnntct ccggccnc	818

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 28

aggaaggcgc gagggatatt gtangggatt gagggatagg agnataangg gggagggtgt	60
tcccaacatg anggtgnngt tctctttga angagggttg ngttttann ccnggtgggt	120
gattnaaccc cattgtatgg agnnaaaggc tttnagggat tttcggctc ttatcagtat	180
ntanattcct gtnaatcgga aaatnatntt tcnnncggaa aatnttgcct ccatccgnaa	240
attnctcccg ggtatgtcat ntnggggn cngccangtt tcccaggtc ctanaatcg	300
actaaagntt naagtgggan tncaaatgaa aacctnnccac agagnatccn taccgcactg	360
tnnnntncct tcgccccntg actctgcnnn agcccaatac ccnnngngnat gtcncccn	420
nnngcgnncn tggaaannnncc tcgngctnn gancatcang gggtttcgc taaaagcnn	480
cgttcncat naaggcactt tngcctcattc caaccnctng ccctcnccca ttngccgtc	540
nggttccctt acgctnnnng cnccnnntn ganatttnc ccgcctnggg naancctctt	600
gnaatggta gggncntntc ttttaccnn gnggtntact aatcnctnc acgcnntctt	660
tctcnacccc cccccctttt caatcccanc ggcnaatggg gtctcccccnn cganggggg	720

nnncccannc c 731

<210> 29
<211> 822
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 29

actagtcac	tgtggtgaa	ttccattgt	ttggggncnc	ttctatgant	antnttagat	60
cgctcanacc	tcacancctc	ccnacnangc	ctataangaa	nannaataga	nctgtncnnt	120
atntntacnc	tcatannccc	cnnnacccac	tccctttaa	cccntactgt	gcctatngcn	180
tnnctantct	ntgcccctn	cnancacccn	gtggggccnac	cncnngnatt	ctcnatctcc	240
tcnccatntn	gcctananta	ngtnacatacc	ctatacctac	nccaatgcta	nnnctaancn	300
tccatnantt	annntaacta	ccactgacnt	ngactttcnc	atnanctct	aatttgaatc	360
tactctgact	cccacngcct	annnattagc	ancntcccc	naclnatntct	caaccaaatac	420
ntcaacaacc	tatctanctg	ttcnccaacc	ntncctccg	atccccnnac	aaccccccctc	480
ccaaataaccc	nccacctgac	ncctaaccn	caccatcccg	gcaagccnan	ggncatttan	540
ccactggaat	cacnatngga	aaaaaaaaac	ccnaactctc	tancnccnat	ctccctaana	600
aatnctccn	naatttactn	ncantnccat	caanccacn	tgaaacnnaa	ccccctgttt	660
tanatccctt	cttgcggaaa	ccnaccctt	anncccaac	cttngggcc	ccccnctnc	720
ccnaatgaag	gnccnccaaat	cnangaaacg	ncntgaaaa	ancnaggcna	anannntccg	780
canatcctat	cccttanttn	ggggncctt	ccccngggcc	cc		822

<210> 30
<211> 787
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 30

cggccgcctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgcccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgcgtgt	gaagtcgtgg	atgtgtggctt	ggagctccctc	atctacatna	180
gctggaaagcc	ctggagggcc	tctctegcca	gcctccccc	tctctccacg	ctctccangg	240
acaccagggg	ctccaggccag	cccattattc	ccagnangac	atggtgttcc	tccacgcgg	300
cccatggggc	ctgnaaggcc	agggtctct	ttgacaccat	ctctcccg	ctgctggca	360
ggccgtggga	tccactantt	ctanaacgg	cgccaccncg	gtgggagctc	cagttttgt	420
tcccnnataat	gaaggttaat	tgcncgctt	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntccctc	ncnattccnc	ncnacatacn	aaccggaaan	cataaaagtgt	540
taaaggctgg	gggtngccctn	nngaatnaac	ttaactcaat	taattgcgtt	ggctcatggc	600
ccgcttccn	ttcngggaaa	ctgtcnccc	ctgcnnnt	gaatcggcca	cccccnnggg	660
aaaagcggtt	tgcnnttng	ggggntccctt	ccnctccccc	cctcnctaann	ccctncgcct	720
cggcgttnc	nggtngcggg	gaangggnat	nnnctccnc	naaggggng	agnnnngntat	780
ccccaaaa						787

<210> 31
<211> 799
<212> DNA
<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(799)
 <223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgtactg	tttaattgca	ggagggtgggg	gtgtgtgtac	60
catgtaccag	ggcttattaga	agcaagaagg	aaggaggagg	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	gggaggccct	180
cccgccagggt	ggggggccacc	agtccagggg	tgggagact	acanggggtg	ggagtgggtg	240
gtggctggtn	cnaatggcc	gnCACANATC	cctacgattc	ttgacacctg	gatttaccca	300
ggggacacct	tgttctcccc	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcattct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttggtaca	420
tatggttccg	gcccacactct	cccntcnaan	aagtaattca	ccccccccc	ccntctntt	480
cctggccct	taantaccca	caccgaaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcncn	cctgaangcg	ccaagttgaa	aggccacgccc	gtncnnctc	cccatagnan	600
nttttncnt	canctaatgc	ccccccngc	aacnatccaa	tcccccccn	tggggcccc	660
agcccanngc	ccccgnctcg	ggnnncnngn	cncgnantcc	ccaggnctc	ccantcngnc	720
ccnnngcncc	cccgacacgca	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnnncnac	780
ctcgccccc	cnnncnng					799

<210> 32
 <211> 789
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(789)
 <223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttncnag	ggcagggtta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcggcg	gccccggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgct	tgtatnttct	ctgcagctgc	aggatgcct	aaaacaggc	ctccggccnt	240
ggtggcacc	ctgggatttt	aatttccacg	ggcacaatgc	ggtcgcanc	cctcaccacc	300
natttagaat	agtggtnnta	ccncncnc	ttggcnact	ccccntggaa	accacttntc	360
gcggctccgg	catctggct	taaaccttgc	aaacnctggg	gccctcttt	tggttntnt	420
ncncnccaca	atcatnactc	agactggcnc	gggctggccc	aaaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgctgcnatn	tncatcacct	cccggnnc	ncaggncaac	540
ccaaaaagttc	ttgngcccn	aaaaaaanc	ccggggggnc	ccagtttcaa	caaagtcatc	600
cccccggcc	cccaaatacct	ccccccgnnt	ntcggtttt	ggaacccacg	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcgggccc	cccggtgggc	ccnnctctaa	ngaaaacncc	720
ntcctnnca	ccatcccccc	nngnnacgn	tancaangna	tcccttttt	tanaaaacggg	780
ccccccncg						789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33

gacagaacat	gttggatgg	ggägcac	ttatacgac	ttacaggaca	gcagatggg	60
aattcatggc	tgtggagca	atanaaccc	agttctacga	gctgctgatc	aaaggactg	120
gactaaaagtc	tgtgaactt	cccaatcaga	tgagcatgga	tgatggcca	aaaatgaana	180
agaagttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atcttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	ctttgagga	ggttgttcat	catagtacaca	300
acaangaacg	gggctcg	tttgcattt	atcaccantg	agagcagga	cgtgagcccc	360
ctctgctgtt	aaacacccc	gccatccctt	cttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtg	gagtc	tccagcttt	gtccctta	tgagggtta	480
tggcgttaatc	atggcata	ctgtttctg	tgtgaaattt	ttatccgctc	acaattccac	540
acaacatacg	anccggaa	gc	atnaaattt	aaagcctgn	gtngcctaa	600
nactcacatt	aattggctt	g	gcgtcactg	cccgcttcc	agtccggaaa	660
gccagctgcc	nttaatgaat	cnggccc	ccccgggaaa	aggcngttt	ctnttgggg	720
cgcncttccc	gcttctcg	tc	ttcctgaant	cc	gttcttcgg	780
acggtatcna	cct					793

<210> 34

<211> 756
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34

gccgcgac	gc	atgtacga	gcaactcaag	ggcgagtgg	accgtaaaag	ccccatctt	60
ancaagtgc	g	ggaa	anagct	gggtcgactc	aagcttagtt	ttctggagct	120
ccaaccac	ag	g	gaccaagct	gacaaacag	cagctaattc	tggccgtga	180
atcg	ggggccc	aatggagcat	cctacgcaan	gacatccc	ccttcgagcg	ctacatggcc	240
cagctcaat	g	t	ctactactt	tgattacaan	gagcagctcc	ccgagtca	300
cagcttgg	g	cc	cttcaac	cttcttctg	ctgtcccaga	accgggtgg	360
acggantgg	a	nc	ggctg	tgcccaanga	catacanacc	aatgtctaca	420
gtgtc	tgg	g	caatactga	tgganggc	ctaccncaa	gtnttcotgg	480
catcccc	cg	g	gagactac	ac	ttgacatc	gctcgacact	540
aaaatgc	ng	g	ttgtg	ctcca	gaaaggctnc	aanaanatcc	600
atncnctag	t	n	ctagaatcg	gccc	ccat	g	660
ttactgaggg	t	tn	tgttgc	cc	tttgcgt	tatcatggc	720
aatnttaac	c	cc	caca	at	cc	ttgtgttga	756

<210> 35

<211> 834
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 35

ggggatct	an	atcnac	ct	gnatgc	atgg	ttgtcggt	ggtcgctg	gatgaanat	60
aacaggat	t	g	c	tgc	tgg	gtgt	gtgt	ctcg	120
tagtc	ca	ct	ct	cg	ttt	ttt	ttt	tc	180
aatctc	ng	g	ct	gt	ttt	ttt	ttt	cc	240
aaantcc	an	g	tt	gt	ttt	ttt	ttt	cc	300
cttctnna	an	g	tt	gt	ttt	ttt	ttt	cc	360
angannanc	c	g	tt	gt	ttt	ttt	ttt	cc	
cancttgc	g	g	tt	gt	ttt	ttt	ttt	cc	
gagctgg	g	g	tt	gt	ttt	ttt	ttt	cc	
ttgganaa	a	a	tt	gt	ttt	ttt	ttt	cc	
cgtcactgtt	c	a	tt	gt	ttt	ttt	ttt	cc	

ggaaactgat cccaaatggt atgtcatcca tgcctctgc tgcccgaaa aaacttgctt	420
ggcncaaatc cgactccccn tccttggaaag aagccnatea caccggccctc ccggactcc	480
nncaangact ctnccgctnc cccntccnng cagggttggg ggcannccgg gcccngcgc	540
ttcttcagcc agttcacnat nttcatcage ccctctgcca gctgtntat tccttggggg	600
ggaancggc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gentcnccnt	660
acntnctggg cgggttcaa antccctccn ttgnmnntcn cctcgggcca ttctggattt	720
nccnaactt ttccttcccc cnccccncgg ntttggntt tttcatnngg ccccaactct	780
gctnttggcc antccctgg gggcmtntan cnccccctnt ggtcccentng gccc	834

<210> 36
<211> 814
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 36

cggncgctt ccngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn	60
cctagnaaac attaatgggt tgcttacta atacatcata cnaaccaga agcctgccc	120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tggctctcc accccctgt	180
gaaaggcct gccttgaag acaccacaat ncggctgaat cttaagtctt gtgtttact	240
aatgaaaaaa aaaaataaac aanaggttt gttctcatgg ctgcccaccg cagcctggca	300
ctaaaacanc ccagcgctca cttctgtt ganaaatatt ctttgcctt ttggacatca	360
ggcttgatgg tatcaactgcc acnttccac ccagctggc ncccttcccc catntttgtc	420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngccacaag accggccacc	480
aggggangtc nttncatgt gatctccaa anantaccn tatcatcnnt gaataaaaaag	540
gccccctgaac ganatgctc cancancctt taagacccat aatcctngaa ccatggtgc	600
cttccggct gatccnaaag gaatgttccct gggtcccant ccctcccttg tncttacgt	660
tgtnttggac ccntgctnng atnaccaan tganatcccc ngaagcaccc tnccctggc	720
attingantt cntaaattct ctgcctacn nctgaaagca cnattccctn ggncnccnaan	780
ggngaaactca agaaggtctn ngaaaaacca cncn	814

<210> 37
<211> 760
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 37

gcatgctgct ttccctcaaa gttgttcttg ttgcctataac aaccaccata ggtaaagcgg	60
gcycaagtgtt cgctgaaggg gttgttagtac cagcgcggga tgctctccctt gcagagtct	120
gtgtctggca ggtccacgca atgcccttgc tcaactggggaa atggatgcg ctggagctcg	180
tcnaanccac tcgtgttattt ttcacangca gcctccctcg aagcntccgg gcagttgggg	240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt	300
gggctgacag gtgccagaac acactggatn ggccttccca tggaaaggcc tggggaaat	360
cncctnanc caaaactgct ctcaaaggcc accttgcaca ccccgacagg cttagaaatgc	420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aaccaaaanc	480
ttgcaaaatc tgctccgtgg gggcatnnn taccanggtt gggaaanaa acccggcngn	540
gancncctt gtttgaatgc naaggaata atccctctgt ctgtctggg tggaaanagca	600
caattgaact gttAACNTT ggccngtgc cnctnggtg gtctgaaact aatcaccgtc	660
actgaaaaaa ggtangtgc ttccctgat tcccaaantt cccctngntt tggtnntt	720

ctcctctncc ctaaaaatcg tnttcccccc ccntanggcg 760

<210> 38
<211> 724
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 38

tttttttttt tttttttttt tttttaaaaaa cccccctccat tgaatgaaaaa	60
cttcnaaat tggccaaccc cctcnccaa atnnccatt ccgggggggg gttccaaacc	120
caaattaatt ttggantta aattaaatnt tnattnnnnn aanaanccaa atgtnaagaa	180
aatttaaccc attatnaact taaatncctn gaaaccntg gnttccaaaa atttttaacc	240
cttaaatccc tccgaaattt ntaangaaaa accaaattcn cctaaggctn tttgaaggtt	300
ngatttaaac ccccttnant nttnnacc cnngnctnaa ntattnngt tccgggttt	360
tcctnttaan cntnggttaac tcccgntaat gaannnnccct aanccaatta aaccgaattt	420
ttttgaatt gaaattccn ngggattna ccgggggttt tcccnnttgg gggccatncc	480
cccnctttcg gggtttgggn ntaggttgaat ttttnnang ncccaaaaaa ncccccaana	540
aaaaaaactcc caagnnttaa ttngaatntc ccccttccca ggcctttgg gaaaggnggg	600
tttnnnggggg ccngggantt cncctcccn ttnccncccc ccccccnggt aaanggttat	660
ngnnttggt tttgggccc cttnanggac ctccggatn gaaattaaat ccccggnncg	720
gccg	724

<210> 39
<211> 751
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 39

tttttttttt tttttttttt ctcacattta atttttattt tgatttttt taatgctgca	60
caacacaata ttatattcat ttgtttcttt tatttcattt tattttttt ctgctgtgt	120
tttattttttt ttactgaaa gtgagaggaa acttttgtgg cctttttcc tttttctgt	180
ggccgcctta agctttctaa atttgaaca tctaagcaag ctgaanggaa aaggggttt	240
cgaaaaatca ctcggggaa ngggaaagggtt gctttgttaa tcatgcctta tgggtgggtga	300
ttaactgctt gtacaattac ntttcacttt taattaattt tgctnaangc ttaattana	360
cttgggggtt ccctccccan accaaccnnn ctgacaaaaaa gtgccngccc tcaaatnatg	420
tccggcnnnt ctttgcacaca cacngcngaa ngttctcatt ntcccnncnc caggtaaaaa	480
tgaagggtt ccatnnttaa cnccacctcc acntggcnnn gcctgaatcc tcnaaaancn	540
ccctcaancn aattntnng ccccggtcnc gcntnngtcc cncccggtt ccgggaantn	600
caccccnnga anncnntnnc naacnaaaatt ccgaaaaatat tcccnntcnc tcaattcccc	660
cnnagactnt ctcnnncnan cncaatttc ttttnntcac gaacncgnnc cnnaaaatgn	720
nnnnncnctc cnctngtccn naatcnccan c	751

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 40

gtggatattt ctgtaagatc aggtgttcct ccctcgtagg ttttagaggaa acaccctcat	60
agataaaaac ccccccggaga cagcagcaact gcaactgcga agcagccggg gttaggagggg	120
cgccttatgc acagctggc ccttgagaca gcagggcttc gatgtcaggc tcgatgtcaa	180
tggctctggaa gggcgccgtg tacctgcgta gggcacacc gtcagggccc accaggaact	240
tctcaaagtccaggcaacn tcgttgcgac acaccggaga ccaggtgatn agcttggggt	300
cggcataan cgccgtggcg tcgtcgctgg gagctggcag ggcctccgc aggaaggcna	360
ataaaaggcgccgtc cggcccttcnaanaccatg angttgggct	420
cnaacccacc accanncccg acttccttga nngaattccc aaatcttgc gntcttggc	480
ttctctgtat gccctancgt gttgcccnng atgccaanca ncccccaancc ccggggct	540
aaancaccccn cctccentt tcacatgggt tntntcccc ggacntggg tccctcaag	600
gganccccata tctcnaccan tactcacnt nccccccnt gnnacccanc ctctannng	660
ttcccncccg ncctctggcc cntcaaananc gctncacna cctgggtctg cttcccccc	720
tnccctatct gnaccccn tttgtctcan tnt	753

<210> 41

<211> 341

<212> DNA

<213> Homo sapien

<400> 41

actatatcca tcacaacaga catgottcat cccatagact tcttgacata gcttcaaatg	60
agtgaaccca tccttgatt atatacatat atgttctcag tattttggga gcctttccac	120
ttctttaaac ctgttcatt atgaacactg aaaataggaa ttgtgaaga gttaaaaagt	180
tatagcttgt ttacgttaga agttttgaa gtctacattc aatccagaca cttagtttag	240
tgttaaactg tgattttaa aaaatatcat ttgagaatat tcttcagag gtatttcat	300
ttttacttt tgattaattt tgatggat attaggtag t	341

<210> 42

<211> 101

<212> DNA

<213> Homo sapien

<400> 42

acttactgaa ttttagttctg tgctttcct tattttagtgt tgtatcataa atactttgat	60
gtttcaaaaca ttctaaataa ataattttca gtggcttcata a	101

<210> 43

<211> 305

<212> DNA

<213> Homo sapien

<400> 43

acatctttgt tacagtctaa gatgtgttct taaaatccca ttcccttcctg gtccctcaccc	60
tccagggtgg tctcacactg taatttagagc tatttggagg tctttacagc aaattaagat	120
tcaagatgcct tgctaaatgtt agagttctag agttatgttt cagaaagtct aagaaaccca	180
cctcttgaga ggtcgttaa gaggacttaa tatttcatat ctacaaaatg accacaggat	240
tggatcaga acgagatgtt tcctggataa ctcagagctg agtacctgcc cggggccgc	300
tcgaa	305

<210> 44

<211> 852

<212> DNA

<213> Homo sapien

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47

acaagggggc ataatgaagg agtggggana gattttaaag aaggaaaaaa aacgaggccc	60.
tgaacagaat ttccctgnac aacggggctt caaaaataatt ttcttgggg ggttcaagac	120
gcttcactgc ttgaaaactta aatggatgtg gagcanaatt ttctgtaatg accctgaggg	180
cattacagac gggactctgg gaggaaggat aaacagaaaag gggacaaaagg ctaatcccaa	240
aacatcaaag aaaggaaggt ggcgtcatac ctccccagcct acacagttct ccagggctct	300
cctcatccct ggaggacgac agtggaggaa caactgacca tggcccccagg ctctgtgtg	360
ctggctctg gtcttcagcc cccagctctg gaagcccacc ctctgtgtat cctgcgtggc	420
ccacactct tgaacacaca tccccaggtt atattcctgg acatggctga acctcctatt	480
cctacttccc agatgcctg ctccctgcag cctgtcaaaa tccccactcac cctccaaacc	540
acggcatggg aagcctttct gacttgcctg attactccag catcttgaa caatccctga	600
ttccccactc ctagaggca agataagggtg gttaaaggtt gggctggacc acttggagcc	660
aggctgctgg cttaaaatn tggctcattt acgagctatg ggaccttggg caagtnatct	720
tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt	774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48

canaaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt	60
ttgaantat anaaatgtgt cataaattat aatgttcattt aattacagct caacgcaact	120
tggt	124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49

gccgatgcta ctatttattt gcaggagggtg ggggtgtttt tattattctc tcaacagctt	60
tgtggctaca ggtgggtct gactgcatna aaaantttt tacgggtgat tgcaaaaatt	120
tttagggcacc catatcccaa gcantgt	147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50	
acattaaaatt aataaaagga ctgttggggt tctgctaaaa cacatggcctt gatatattgc	60
atggtttgag gtaggagga gttaggcata tgtttggga gaggggt	
<210> 51	
<211> 204	
<212> DNA	
<213> Homo sapien	
<400> 51	
gtccttaggaa gtcttagggaa cacacgactc tggggtcacg gggccgacac acttgcacgg	60
cgggaaggaa aggagagaa gtgacaccgt cagggggaaa tgacagaaaag gaaaatcaag	120
gccttgcagg gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttggcca	180
cctccctttt gggaccagca atgt	204
<210> 52	
<211> 491	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(491)	
<223> n = A,T,C or G	
<400> 52	
acaagataa catttatctt ataacaaaaa tttgatagtt taaaaggta gtattgtta	60
gggttatttc caaaaagacta aagagataac tcaggtaaaa agttagaaaat gtataaaaca	120
ccatcagaca ggttttaaa aaacaacata ttacaaaatt agacaatcat cttaaaaaaaaa	180
aaaacttctt gtatcaattt cttttgttca aatgactga cttaatattttttaatatt	240
tcanaaacac ttccctcaaaa attttcaana tggtagctt canatgtnc ctcagtcac	300
atgttgctca gataaataaa tctcggtgaga acttaccacc caccacaagc ttctgggc	360
atgcaacagt gtctttctt tnctttctt tttttttttt ttacaggcac agaaactcat	420
caattttatt tggataacaa agggtctcca aattatatttgg aaaaataaaat ccaagttat	480
atcactcttg t	491
<210> 53	
<211> 484	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(484)	
<223> n = A,T,C or G	
<400> 53	
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gttattaacag ttgtgaagt ttggattttt tatgcagcat tttctttttt ctttgataac	120
actacagaac ccttaaggac actgaaaattt agtaagttaa gttcagaaac attagctgt	180
caatcaaattc tctacataac actatagttaa taaaacgtt aaaaaaaaaagt gttgaatct	240
gcacttagtat anaccgctcc tgtcaggata anactgtttt ggaacagaaaa gggaaaaanc	300
agctttgant ttctttgtgc tggatangagg aaaggctgaa ttaccttggt gctctccct	360
aatgattggc aggtcnggtt aatnccaaa catattccaa ctcaacactt cttttccncc	420
tancttgant ctgtgtattc caggancagg cgatggaaat gggccagcccc ncggatgttc	480
cant	484
<210> 54	

<211> 151
 <212> DNA
 <213> Homo sapien

<400> 54
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 ccactgggta tactgctgac aaccgaaca aaaaaaacac aaatccttgg cactggctag 120
 tctatgtcct ctcaagtgcc ttttttttgc t 151

<210> 55
 <211> 91
 <212> DNA
 <213> Homo sapien

<400> 55
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 gccctccagt ggatactcga gccaaagtgg t 91

<210> 56
 <211> 133
 <212> DNA
 <213> Homo sapien

<400> 56
 ggcgatgtg cgttggttat atacaaatat gtcattttat gtaaggact tgagtatact 60
 tggatTTTt gatatgtgg gttggggggc cggtccagga accaataccc catggatacc 120
 aaggacaac tgt 133

<210> 57
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 57
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 gactgggagc tgagcccttc cctttgcgcc tgccctcagag gatttgtgcc gacntgcana 120
 tctcantggg ctggatncat gcaggg 147

<210> 58
 <211> 198
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(198)
 <223> n = A,T,C or G

<400> 58
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 tgattacata catttaccc ttaaaaaaga tgaaatctt aattttatg ccatcttatta 120
 atttaccaat gagttaccc tgaaatgaga agtcatgata gcactgaatt ttaacttagtt 180
 ttgacttcta agtttggt 198

<210> 59		
<211> 330		
<212> DNA		
<213> Homo sapien		
<400> 59		
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cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atttctgaa	180	
tacagtcaat aaatgacaaa gccaggccct acaggtggtt tccagacttt ccagacccag	240	
cagaaggaat ctatttatac acatggatct ccgtctgtgc tcaaaaatacc taatgatatt	300	
tttcgtcttt attggacttc tttgaagagt	330	
<210> 60		
<211> 175		
<212> DNA		
<213> Homo sapien		
<400> 60		
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tccttggacc accgggtggct gggcaaggcc gaggagtgcg attccctgtgc ctgg	175	
<210> 61		
<211> 154		
<212> DNA		
<213> Homo sapien		
<400> 61		
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gggttggct cttcaacagt atcccccct ttccggatct gctgagccgg acagcagtgc	120	
tggactgcac accccccgggg ctccacatttgc ctgt	154	
<210> 62		
<211> 30		
<212> DNA		
<213> Homo sapien		
<400> 62		
cgctcgagcc ctatagtgag tcgtattaga	30	
<210> 63		
<211> 89		
<212> DNA		
<213> Homo sapien		
<400> 63		
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ctgtatgaat aaaaatggtt atgtcaagt	89	
<210> 64		
<211> 97		
<212> DNA		
<213> Homo sapien		
<400> 64		
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aatcagtgc a tccaggattg gtccttggat ctggggat	97
<210> 65	
<211> 377	
<212> DNA	
<213> Homo sapien	
<220>	
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<223> n = A,T,C or G	
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ccaaaccttgg tctaccacaca ntctggcta tggctgtct ctgccactga acatcagggt	180
tcggctataa natgaaatcc caangggac agaggtca gt agaggaatc caatgagaaa	240
ggtgtgttt gctcagccag aaaacagctg cttggcatc gccgctgaac tatgaacccg	300
tgggggtgaa ctacccccc gaggaatcat gcctggcga tgcaanggtg ccaacaggag	360
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<210> 66	
<211> 305	
<212> DNA	
<213> Homo sapien	
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aggaactaac tgcccccctgg tcctctcccc agtccccagt tcaccctcca tccctcacct	180
tcctccactc taaggatata caacactgcc cagcacagg gcccgtgaatt tatgtggttt	240
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tgttt	305
<210> 67	
<211> 385	
<212> DNA	
<213> Homo sapien	
<400> 67	
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ggtcggacca gccacatctc atgtgcaaga ttgcccagca qacatcagggt ctgagagttc	120
cccttttaaa aaaggggact tgctaaaaaa agaagtctag ccacgattgt gtagagcagc	180
tgtgtgtgc tggagattca cttttgagag agttctccctc tgagacctga tctttagagg	240
ctggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgttg	300
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catagtttct gtgcttagtgg accgt	385
<210> 68	
<211> 73	
<212> DNA	
<213> Homo sapien	
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gttttttaa tgg	73
<210> 69	

<211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 69

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cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggagagg	ataggataat	180
cccgggtggc	atctataacg	cagactcaa	tgtatgatgg	gtacagcg	ccottcaactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgotgcgggt	300
actaagagcc	aggcaacaga	ccgttgggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaaacagt	tgtgccttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtccct	gggtgaaatc	caggtgtcaa	gaaatccctan	ggatctgtt	ccaggc	536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70

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tcacttccac	tccataacgc	tcctcataact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
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ccgtattact	cgcatacgga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
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<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71

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tgtgat	tttta	gtggat	tggcaccc	tttataatgtt	tccaaacttt	180
attatttcca	taacttaaaa	agttagttt	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taataaaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttaa	aaaagctgtc	300
aaataggtgt	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtagctca	360
agtca	tttgc当地aaa	tatcaaataat	aactctttaga	gaaatgtaca	taaaaagaatg	420
cttcgtaatt	ttggagtg	tttgc当地aaa	tttgc当地aaa	tat	tttgc当地aaa	480
taaaaaaaaaa	aattcacaac	agtatataag	gctgtaaaat	gaagaattct	gcc	533

<210> 72
 <211> 511

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

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aatatgaaagg cttccaggca gttatctgat taaaagaacac taaaagaggg acaaggctaa	120
aaggccgcagg atgtctcacac tatancaggc gctatttggg ttggctggag gagctgtgga	180
aaacatggan agatgggtgc tgganatcgc cgtggctatt cctcattgtt attacanagt	240
gagggttctt gtgtgccccac tggtttgaaa accgttctnc aataatgata gaatagtaca	300
cacatgagaa ctgaaatggc ccaaaccacaa aagaaaagcc caactagatc ctcaaanac	360
gcttcttaggg acaataaccg atgaaaaaaaaaa gatggcctcc ttgtgcccccc gctgttatg	420
atttctctcc attgcagcna naaacccgtt cttctaagca aacncagggtg atgatggcna	480
aaatacacccc cctcttgaag nacnngagg a	511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

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tggcccttggt ggagctgggt ccagcaccag tggcagctct ggtgcctgtg gtttcttcata	180
caagtgagat ttttagatatt gtttaatcctg ccagtctttc tcttcaagcc agggtgcata	240
ctcagaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca	300
ctctgcatta aatctatttg ccatttctga aaaaaaaaaaaaaaaa aaaaaaaaaagggg cgccgcctcg	360
antctagagg gcccgtttaa acccgctgat cagcctcgac tgccttct anttgcctc	420
catctgttgt ttgccccctcc cccgnntgcct tccttgaccc tggaaagtgc cactcccact	480
gtcccttcct aantaaaat	499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

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tccaggccca cggctcaagt gaatttgaat actgcattt cagtgttagag taacacataa	180
cattgtatgc atggaaacat ggaggaacag tattacagtgc tcctaccact ctaatcaaga	240
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ggctttgtat ttataanact ttgggtactt atactaaatt atggttagtta tactgccttc	360
cagtttgcctt gatatatttg ttgatattaa gattcttgac ttatattttg aatgggttct	420

actgaaaaan	aatgtatata	ttcttgaaga	cacgtatata	catttatcta	cactcttgat	480
tctacaatgt	agaaaatgaa	ggaaatgcc	caaattgtat	ggtgataaaa	gtcccg	537
<210> 75						
<211> 467						
<212> DNA						
<213> Homo sapien						
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<221> misc_feature						
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<223> n = A,T,C or G						
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tgcattttac	acgtacccc	tcctgtcct	caagtagtgt	ggcttatttt	gccccatcatca	120
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tggcacaagg	aggccatctt	ttcctcatcg	gttattgtcc	ctagaagcgt	tttotgagga	240
tctagttggg	ttttcttct	gggttgggc	catttcantt	ctcatgtgt	tactattcta	300
tcattattgt	ataacggtt	tcaaacccngt	gggcacncag	agaacccac	tctgtataaa	360
caatgagggaa	tagccacggt	gatctccagc	accaaatctc	tccatgtnt	tccagagctc	420
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<210> 76						
<211> 400						
<212> DNA						
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<221> misc_feature						
<222> (1)...(400)						
<223> n = A,T,C or G						
<400> 76						
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atccagcaga	aatggaaag	tcaaaattcc	tgaattgtct	tgtgtctggg	tttcatccat	180
ccgacattga	agttgactta	ctgaagaatg	gagagagaat	tgaaaaagtg	gaggattcag	240
acttgtctt	cagcaaggac	tggtctttct	atctttgtat	ctacactgaa	ttcacccccca	300
ctgaaaaaga	ttagtatgcc	tgccgtgtga	accatgtgac	tttgtcacag	cccaagatng	360
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<210> 77						
<211> 248						
<212> DNA						
<213> Homo sapien						
<400> 77						
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caggactgt	tcatctcagc	ttttctgtcc	cttgctccc	ggcaagcgct	tctgctgaaa	180
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<400> 78

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tctgtactc	ggaaactatt	tttatgtataat	aatgttatgc	tttcttgttt	ataaaatgcct	180
gattaaaaaa	aaaaaaaaaa	a				201

<210> 79

<211> 552

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(552)

<223> n = A,T,C or G

<400> 79

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cctctttctt	ctgaagat	atgaagttga	aaattgaggt	ggataaatac	aaaaaggtag	180
tgtgatagta	taagtatcta	agtgcagatg	aaagtgtgtt	atatatatcc	attcaaaatt	240
atgcaggat	taattactc	agggttaact	aaattactt	aatatgtgt	tgaacctact	300
ctgtcccttg	gctagaaaaa	attataaaca	ggactttgtt	agtttggaa	gccaatttga	360
taatattcta	tgttctaaa	gttggctat	acataaaanta	tnaagaaaata	tggaaatttta	420
ttccaggaa	tatggggttc	atttatgaat	antacccggg	anagaagttt	tgantnaaac	480
cngtttttgtt	taatacgat	atatgtcctn	aatnaacaag	gcntgactta	tttccaaaaaa	540
aaaaaaaaaa	aa					552

<210> 80

<211> 476

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(476)

<223> n = A,T,C or G

<400> 80

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cacacagact	cccgagtagc	ttggactaca	ggcacacagt	caactgaagca	ggccctgttt	180
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tcttctaa	gttggctt	cctcttccag	cctcactttg	agtcctcctt	gggggtttag	360
tcttggcttt	ctcaataaaa	tctctatcca	tctcatgttt	aatttggtag	gcntaaaaat	420
gctgaaaaaa	ttaaaatgtt	ctggttcnc	tttaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	476

<210> 81

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<p><400> 81</p> <pre>tttttttttgc tatgcncntcn ctgtggngtt attgttgctg ccaccctgga ggagcccaagt ttcttcgtatc tctttctttt ctgggggatc ttccctggctc tgcccccca ttcccagcct ctcatccccca tcttgcaactt ttgcttagggt tggaggcgct ttccctggtag cccctcagag actcagtctcg cgaaaataaag tccttaggggt ggggggtgtg gcaagccggc ct</pre> <p><210> 82</p> <p><211> 383</p> <p><212> DNA</p> <p><213> Homo sapien</p> <p><220></p> <p><221> misc_feature</p> <p><222> (1)...(383)</p> <p><223> n = A,T,C or G</p> <p><400> 82</p> <pre>aggccgggagc agaagctaaa gccaaagccc aagaagagtgc gcagtgccag cactggtgcc agtaccagta ccaataacat gccagtgcac gtgccagcac cagtggggc ttcaagtgcgt gtgccagcct gaccgcact ctcacatttgc ggctcttcgc tggccttgggt ggagctgggt ccagcaccag tggcagctt ggtgcctgtg gtttctcta caagtgagat ttttagatatt gttaatccctg ccagtcttc tcttcaagcc agggtgcatc ctcagaaacc tactcaaacac agcactctng gcagccacta tcaatcaattt gaagttgaca ctctgcatttta aatctatttgc ccatttcaaa aaaaaaaaaaaa aaa</pre> <p><210> 83</p> <p><211> 494</p> <p><212> DNA</p> <p><213> Homo sapien</p> <p><220></p> <p><221> misc_feature</p> <p><222> (1)...(494)</p> <p><223> n = A,T,C or G</p> <p><400> 83</p> <pre>accgaatttgg gaccgctggc ttataagcga tcatgttctc cagtattacc tcaacgagca gggagatcga gtctatacgc tgaagaaatt tgacccgatg ggacaacacaa cctgctcagc ccatcctgct cgggtctccc cagatgacaa atactctcga caccgaatca ccatcaagaa acgcttcaag gtgctcatga cccagcaacc ggcgcctgtc ctctgagggt ccttaaactg atgtcttttc tgccacactgt taccctctgg agactccgta accaaactct tcggactgtg agccctgatg ctttttgc agccataactc ttggcncntcc agtctctcgat ggcgattgtat tatgcttgc tgaggcaatc atggtggcat cacccatnnaa gggAACACAT ttgantttttt tttcncatat tttaaatttac naccagaata nttcagaata aatgaatttga aaaaacttta aaaaaaaaaaa aaaa</pre> <p><210> 84</p> <p><211> 380</p> <p><212> DNA</p> <p><213> Homo sapien</p> <p><220></p> <p><221> misc_feature</p> <p><222> (1)...(380)</p> <p><223> n = A,T,C or G</p> <p><400> 84</p>	60 120 180 232 60 120 180 240 300 360 383 60 120 180 240 300 360 383 60 120 180 240 300 360 420 480 494
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gaggacatgg acgtggccct catggagcac agcaactgct cgtcgagcc cggctctgg	180
gcacaccctc ctggggccca ggccggcacc tgcgtctccc agtatgcca ctggctggtg	240
gtgcgtctcc tcgtcatctt cctgcgtcgt gccaacatcc tgctggtcac ttgctcattg	300
ccatgttcag ttacacatcc ggcaaagtac agggcaacag cnatctctac tggaaggcc	360
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<210> 85
<211> 481
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

<400> 85

gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc	60
tncatcgta atactgttagg ttgccacca cctcctgcatttggggcgg ctaatatcca	120
ggaaactctc aatcaagtc a cctgcnatna aacctgtggc tggttctgtc ttcgcgtcgg	180
tgtgaaagga tctccagaag gagtgctcga tcttcccccac acttttgatg acttttattga	240
gtcgattctg catgtccacg aggagggtgt accagctctc tgacagttag gtcaccagcc	300
ctatcatgcc nttaacgtg ccgaagaaca ccgagccttgc tgggggggt gnagtctcac	360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggnngaa	420
aaagaacacc tcctggaagt gctngccgct cctcgccnt tggtggnnngc gcntnccttt	480
t	481

<210> 86
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 86

aacatcttcc tgtataatgc tgttaatat cgatccgatn ttgtctgctg agaattcatt	60
acttggaaaa gcaacttnaa gcctggacac tggattaaa attcacaata tgcacactt	120
taaacagtgt gtcacatctgc tcccttactt tgtcatcacc agtctggaa taagggtatg	180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga	240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt	300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg	360
atatntgagc ggaagantag ctttctact tcaccagaca caactcctt catattggaa	420
tgttnacnaa agttatgtct cttacagatg ggtatgtttt gtggcaattc tg	472

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

<400> 87

agaaaccagt atctctnaaa acaacctctc ataccttgcg gacctaattt tttgtgcgtg	60
tgtgtgtcg cgcatattat atagacaggc acatctttt tactttgtta aaagcttatg	120
cctcttttgtt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct	180
ttgttcttcgt tgtaaatggt actagagaaa acacctatnt tatgagtcgaa tcttagtngt	240
tttattcgcac atgaaggaaa ttccagatn acaacactna caaactctcc cttgactagg	300
ggggacaaaag aaaagcanaa ctgaacatna gaaacaattn cctggtgaga aatncataaa	360
acagaaaattt ggtngtataat tgaaanannn catcattnaa acgtttttttt ttt	413

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

<400> 88

cgcagcgggt cctctctatc tagctccagc ctctcgcttg ccccactccc cgctgtcccc	60
gtcctagccn accatggccg ggccctgcg cgccccgcgt ctccgtctgg ccattctggc	120
cgtggccctg gccgtgagcc ccgcggccgg ctccagtcgg ggcaagccgc cgccgttgtt	180
gggaggccca tggaccccgc gtggagaagaag aagggtgtcg gcgtgcactg gactttgccg	240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgctgtcag gttgtgccgc	300
cccaancaa ttgttactng ggtaantaa ttcttggaaat ttgaacctgg gccaaacnng	360
tttaccagaa ccnagccaaat tngaacaatt nccctccat aacagccccct tttaaaaagg	420
gaancantcc tgntctttc caaatttt	448

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 89

gaattttgtg cactggccac tttgtatggaa ccattggcc aggatgtttt gagtttatca	60
gtatgtatcc tgccaaagggt ggtgttgtaa catgagatgt taaaatgtca aaaaatttgc	120
agaggcttag gtctgcataat cagcagacag tttgtccgtg tattttgttag ctttgcattt	180
ctcagtgcata agtttnttctt gatgcgaatgt tctnattcca ttgttttagt ctttgcattc	240
tttnatgttn agacttgcctt ctntnaaaattt gttttgtnt tctgcaggta ctatctgtgg	300
tttaacaaaa tagaannact tctctgttn gaanatttga atatcttaca tctnaaaatn	360
aatttcttcc ccatannaata acccangccc ttggganaat ttgaaaaang gntccttcnn	420
aattcnnana anttcagnntn tcataacaaca naacngganc ccc	463

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa ggtctnttnt	actgtcggac ttttcanc	ccaactctac aagttgtgt	60
cttccactca ctgtctgtaa	gcntnttaac ccagactgt	tcttcataaa tagaacaaat	120
tcttcaccag tcacatcttc	taggacctt ttggattca	ttagtataag ctcttccact	180
tccttggta agacttcata	tggtaaagt ttaagtttt	tagaaaggaa ttaattgtct	240
cgttctctaa caatgtcctc	tccttgaagt atttggctga	acaaccacc tnaagtccct	300
tttgtcatcc atttaaaata	tacttaatag ggcattggtn	cactaggta aattctgcaa	360
gagtcatctg tctgaaaaag	ttgcgttagt atatctgcca		400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcgat ccaataatct	ttgtctgagg gcagcacaca	tatncagtgc catggnaact	60
ggtctacccc acatgggagc	agcatgccgt agntatataa	ggtcattccc tgagttagac	120
atgcctcttt gactaccgtg	tgccagtgc ggtgattctc	acacacctcc nnccgcttt	180
tgtggaaaaa ctggcacttg	nctggaacta gcaagacatc	acttacaat tcacccacga	240
gacacttgaa aggtgtaaaca	aaggcactct tcattgttt	tttgccttc cgccaccagt	300
tgtcaatact aaccgcgtgg	tttgctcca tcacatttg	gatctgttagc tctggataca	360
tctcctgaca gtactgaaga	acttcttctt ttgtttcaaa	agcaactctt ggtgcctgtt	420
ngatcagggtt cccatattccc	agtccgaatg ttccatggc	atatnttact tccccacaaaa	480

<210> 92

<211> 477

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 92

atacagccca natccacca	cgaagatgcg ctgttgact	gagaacctga tgcggtaact	60
ggtcccgctg tagccccagc	gactctccac ctgctggaa	cggttgcgc tgcaactctt	120
cccacgcagg cagcagcggg	gccggtaat gaactccact	cgtggcttgg ggttgacgg	180
taantgcagg aagaggctga	ccacctcgcg gtcaccagg	atgcccact gtgcgggacc	240
tgcagcgaaa ctccctcgat	gtcatgagcg ggaagcgaat	gangccagg gcottgecca	300
gaaccttccg cctgttctct	ggcgtcacct gcagctgctg	ccgctnacac tcggcctcg	360
accagcggac aaacggcgtt	gaacagccgc acctcacgg	tgcccantgt gtgcgcgtcc	420
aggaacggcn ccagcgtgtc	caggtaatg tcggtaanc	ctccgcgggt aatggcg	477

<210> 93

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 93

gaacggctgg accttgcctc gcattgtgt	gctggcagga ataccttggc aagcagctcc	60
agtccgagca gccccagacc gctgcgcggcc	gaagctaagg ctgcctctgg ccttcccctc	120
cgcctcaatg cagaaccant agtggggagca	ctgtgttttag agttaagagt gaacactgttn	180
tgattttact tggaaatttc ctctgttata	tagctttcc caatgctaat ttccaaacaa	240
caacaacaaa ataacatgtt tgcctgttna	gttgtataaa agtangtgat tctgttatnta	300
aagaaaatat tactgttaca tatactgttt	gcaanttctg tatttatttg tnctctggaa	360
ataaaatatat tattaaa		377

<210> 94

<211> 495

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(495)

<223> n = A,T,C or G

<400> 94

cccttgagg ggtagggc cagttccag tggaaagaaac	aggccaggag aantgcgtgc	60
cgagctgang cagattccc acagtgcaccc	cagagccctg ggctataagtc tctgaccct	120
ccaaaggaaag accaccccttct	ggggacatgg gctggaggcc aggacctaga	180
gaaggccccca tccggggct gttcccccag	gaggaaggga aggggctctg tgcctccccc	240
acgaggaana ggcctgtant cctggatca	nacaccctt cacgtgtatc cccacacaaa	300
tgcaagctca ccaaggccc ctctcagtc	cttccctaca ccctgaacgg ncactggccc	360
acacccaccc agancancca cccgcctatgg	ggaatgtntc caaggaatcg cnngggcaacg	420
tggactctng tcccnnaagg gggcagaatc	tccaatagan gganngaacc cttgctnana	480
aaaaaaaana aaaaa		495

<210> 95

<211> 472

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(472)

<223> n = A,T,C or G

<400> 95

ggttacttgg ttcatttgc accacttagt	ggatgtcatt tagaaccatt ttgtctgtct	60
cctcttggaaag ctttgcgcag agcggacttt	gtaattgttg gagaataact gctgaatttt	120
tagctgtttt gagttgattc gcaccactgc	accacaactc aatatgaaaa ctattnact	180
tatttattat ttgtgaaaaa gtataacaatg	aaaattttgt tcatactgtt tttatcaagt	240
atgatgaaaa gcaatagata tatattcttt	tattatgtt aattatgatt gccattatta	300
atcggcaaaa tgtggagtgt atgttctttt	cacagtaata tatgcctttt gtaacttcac	360
ttgggttattt tattgtaaat gaattacaaa	attcttaatt taagaaaatg gtangttata	420
tttatttcan taatttctttt ctttgccttac	gttaattttt gaaagaatgc at	472

<210> 96

<211> 476

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

<400> 96

ctgaaggcatt	tcttcaaact	tntotacttt	tgtcattgat	acctgttagta	agttgacaat	60
gtggtaaaat	ttcaaaaat	tatgttaactt	ctactagttt	tactttctcc	cccaagtctt	120
ttttactca	tgatTTTAC	acacacaatc	cagaacttat	tatatagcct	ctaagtcttt	180
attcttcaca	gtagatgtg	aaagagtctt	ccagtgtctt	gnncanaatg	ttctagntat	240
agctggatac	atacngtgg	agttctataa	actcatacct	cagtggact	naacccaaat	300
tgtgttagtc	tcaattccta	ccacactgag	ggagcctccc	aatcactat	attcttatct	360
gcaggtactc	ctccagaaaa	acngacaggg	caggcttgca	tgaaaaagtn	acatctgcgt	420
tacaaagtct	atcttcctca	hangtctgt	aaggaacaat	ttaatcttct	agcttt	476

<210> 97
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 97

actctttcta	atgtcgat	atgatctgagt	ataagaatgc	atatgtca	act agaatggata	60
aaataatgct	gcaaaactaa	tgttcttat	caaaaatggaa	cgcta	atgaa acacagctt	120
caatcgaaa	tcaaaactca	caagtctca	tctgttgtag	atttatgt	ataagactta	180
gattgtgctc	cttcggat	at gattttct	canatcttg	gcaatnttcc	ttagtcaa	240
caggctacta	gaattctgtt	attgat	tgagagcat	aaattttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttca	tatacctgct	atcagcagct	agaaaaacat	360
ntnnntttta	natcaaagta	ttttgtt	ggaantgtn	aaatgaaatc	tgaatgtgg	420
ttcnatctta	tttttcccn	gacnactant	tncttttta	gggnctattc	tganccatc	479

<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgc	ggcactgaca	atcagaccta	60
tgctagttcc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaatctatt	cctacttgc	cgactttga	180
agtgattcag	ttccctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta	240
tgaagccact	ctgaacacgc	tggtatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatccccat	tgaaccttct	cttaaggact	360
ttaaaaaaaaa	ctaccacatg	ttgtgtatcc	tggtgcggc	cgtttatgaa	ctgaccaccc	420
tttggataaa	tcttgacgct	cctgaacttg	ctccctctgcg	a		461

<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99

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cggccctct	gcggggccga	ggaggagcgg	ctggcgggtg	gggggagtg	gaccaccc	120

cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c	171
<210> 100	
<211> 269	
<212> DNA	
<213> Homo sapien	
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cgactgcgac gacggcggcg gcgacagtgc caggtgcagc gcggggccct ggggttttgc	120
aaggctgagc tgacgcccga gaggtcgtgt cacgtccccac gaccttgacg ccgtcggggaa	180
cagccggAAC agagcccggt gaagccggag gcctcgggga gcccctcgaa aaggccggcc	240
cgagagatac gcaggtgcag gtggccggcc	269
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<211> 405	
<212> DNA	
<213> Homo sapien	
 <400> 101	
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gcttagcaagg taacagggtt gggcatggtt acatgttcaG gtcaacttcc tttgtcgtgg	120
ttgattggTT tgcTTTATG gggggggggg ggggttagggg aaacgaagca aataacatgg	180
agtgggtgca ccctccctgt agaacctggT tacaagactt ggggcagtTC acctggTctg	240
tgaccgtcat ttcttgaca tcaatgttat tagaagtcaG gatatTTTt agagagtcca	300
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<212> DNA	
<213> Homo sapien	
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tcaaaatcta aattattcaa attagccaaA tccttaccaa ataataccca aaaatcaaaa	180
atataacttct ttcagcaaac ttgttacata aattaaaaaa atatatacgg ctggTgtttt	240
caaagtacaa ttatcttaac actgcaaaaca tttaaggaa ctAAAataaa aaaaaacact	300
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aaatcttagg ggaatatata ctTcacacgg gatcttaact ttactcact ttgttttattt	420
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 <210> 103	
<211> 581	
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<213> Homo sapien	
 <400> 103	
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tacacatatt tattttataa ttggTatttag atattcaaaa ggcagctttt aaaaatcaaaAC	120
taaatggaaa ctgccttaga tacataattc tttaggaatta gcttAAAatc tgcctaaagt	180
gaaaatCTC tctagctttt ttgactgtaa attttgcT cttgtAAAac atccaaattc	240
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gcttctctag cctcatttcc tagctttat ctactattag taagtggctt ttTCCTAA	360
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ccatttttagt cactaaacga tatcaaagtG ccagaatgca aaaggTTTGT gaacatttt	540

tcaaaagcta atataagata tttcacatac tcatcttct g	581
<210> 104	
<211> 578	
<212> DNA	
<213> Homo sapien	
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ctcttatgct atatcatat ttaagttaaa ctaatgagtc actggcttat ctctcctga	180
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<211> 538	
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<213> Homo sapien	
 <400> 105	
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gtctgaaca ccaatattaa ttgaggaaa atacaccaaa atacattaag taaatttattt	180
aagatcatag agcttgcata tgaaaagata aaatttgacc tcagaaactc tgacattaa	240
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gggggtgcac tggtaaacca acacattctg aaggatacat tacttagtga tagattctt	360
tgtactttgc taatacgtgg atatgatgtt acaagttct ctttctcaat tcttttaagg	420
ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttcttcta tggaggatt	480
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<211> 473	
<212> DNA	
<213> Homo sapien	
 <400> 106	
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tttataatgt taaggtgcctt ttatttagta atatattccct ccaagagtgg atgtgtccct	180
tctccacca actaatgaac agcaacatta gtttaattttt attagtagat atacactgct	240
gcaaaacgcta attctcttccat ccatccccat gtgtatattgt gtatatgtgt gagttggtag	300
aatgcacatc aatctacaat caacagcaag atgaagctag gctgggctt cgggaaaat	360
agactgtgtc tgcgtgcatac aatgtatctg acctatccctc ggtggcaaga actcttcgaa	420
ccgcttcctc aaaggcgctg ccacatttgc ggctcttgc acttgttca aaa	473
 <210> 107	
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<213> Homo sapien	
 <400> 107	
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ctgtgttatg gtcctggctg acttcggggc gcgtgtggta cgcgtggacc ggcccggtc	120

ccgctacgac	gtgagccgct	tggccgggg	caagcgctcg	ctagtgcgtt	acctgaagca	180
gccgcgggg	gcccgcgtc	tgccgcgtct	gtgcaagcg	tcggatgtgc	tgcgtggagcc	240
cttcgcgc	ggtgtcatgg	agaaactcca	gctggccca	gagattctgc	agcggaaaaa	300
tccaaaggctt	atttatgcca	ggctgagttt	atttggccaa	tcaggaagct	tctgcccgtt	360
agctggccac	gataatcaact	atttggcttt	gtcagggttt	ctctcaaaaaa	ttggcagaag	420
tggtgagaat	ccgtatgc	cgtgaatct	cctggctgac	tttgcgtgtt	gtggccttat	480
gtgtgcactg	ggcattataa	tggcttttt	tgaccgcaca	cgcactgaca	agggtcaggt	540
cattgatgc	aatatggtgg	aaggaacagc	atattaagt	tcttttctgt	gaaaaactca	600
gaaatcgagt	ctgtggaaag	cacctcgagg	acagaacatg	ttggatgtt	gagcaccttt	660
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gagcatggat	gattggccag	aaatgaagaa	gaagtttgc	gatgtattt	caaagaagac	840
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ggaggcaggac	gtgagcccc	gccctgcacc	tctgcgttta	aacacccca	ccatcccttc	1020
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cagccgcga	gagatttac	agcttaactc	agataaaaatc	attgaaagta	ataaggtaaa	1140
agctagtctc	taacttccag	gcccacggct	caagtgaatt	tgaataactgc	attacagt	1200
tagagtaaca	cataacatg	tatgcatgga	aacatggagg	aacagtatta	cagtgtccta	1260
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aatggttac	attaggcctt	ttgattata	aaactttgg	tacttatact	aaattatgg	1380
agttattctg	ccttccagtt	tgcttgat	atttgcgtt	attaagattc	ttgacttata	1440
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atttacactc	ttgattctac	aatgttagaaa	atgagggaaat	gcccacaaatt	gtatggt	1560
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a						1621

<210> 108

<211> 382

<212> PRT

<213> Homo sapien

<400> 108

Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro			
1	5	10	15
Gly Pro Phe Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val			
20	25	30	
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg			
35	40	45	
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala			
50	55	60	
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe			
65	70	75	80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln			
85	90	95	
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln			
100	105	110	
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala			
115	120	125	
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr			
130	135	140	
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Leu Met Cys			
145	150	155	160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys			
165	170	175	
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser			
180	185	190	
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg			

195	200	205
Gly Gln Asn Met Leu Asp	Gly Gly Ala Pro Phe Tyr	Thr Thr Tyr Arg
210	215	220
Thr Ala Asp Gly Glu	Phe Met Ala Val Gly Ala Ile	Glu Pro Gln Phe
225	230	235
Tyr Glu Leu Leu Ile Lys	Gly Leu Gly Leu Lys Ser	Asp Glu Leu Pro
245	250	255
Asn Gln Met Ser Met Asp Asp Trp	Pro Glu Met Lys Lys	Lys Phe Ala
260	265	270
Asp Val Phe Ala Lys Lys	Thr Lys Ala Glu Trp Cys	Gln Ile Phe Asp
275	280	285
Gly Thr Asp Ala Cys Val	Thr Pro Val Leu Thr	Phe Glu Glu Val Val
290	295	300
His His Asp His Asn Lys	Glu Arg Gly Ser Phe	Ile Thr Ser Glu Glu
305	310	315
Gln Asp Val Ser Pro Arg Pro Ala Pro	Leu Leu Leu Asn Thr	Pro Ala
325	330	335
Ile Pro Ser Phe Lys Arg Asp Pro	Phe Ile Gly Glu His	Thr Glu Glu
340	345	350
Ile Leu Glu Glu Phe Gly Phe Ser Arg	Glu Glu Ile Tyr	Gln Leu Asn
355	360	365
Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys	Ala Ser Leu	
370	375	380

<210> 109

<211> 1524

<212> DNA

<213> Homo sapien

<400> 109

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cagtgcgacc	tagtgctct	cacctgccttc	ctcctggcg	tggctgccc	gtgcaccccg	180
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ctgcttcaca	tcttcacgt	caacaaacag	ctggggccca	agatcgcat	ctgtgagcaag	300
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gtggccacgg	aggggctcct	gaggccacgg	gacagtgact	tcccaagtat	cttgcgcgc	420
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gccctcatgg	agcacagcaa	ctgctcgctg	gagcccggt	tctgggcaca	ccctcctgg	540
gcccaaggcg	gcacctgcgt	ctcccagtat	gccaactggc	tgggtgtgt	gtccctcg	600
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acattcggca	aagtacaggg	caacagcgat	ctctactgg	aggcgcagcg	ttaccgcctc	720
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cgccctcctgc	tcaggcaatt	gtgcaggcga	ccccggagcc	cccagccgtc	ctccccggcc	840
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gagcgtctga	agcgcacgtc	ccagaagggt	gacttggac	tgaaacagct	gggacacatc	1020
cgcgagtagc	aacagcgct	gaaagtgtg	gagcgggagg	tccagcagt	tagcccg	1080
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<210> 110

<211> 3410
<212> DNA
<213> Homo sapien

<400> 110						
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catgatcagt	cttgggggt	gcctggcta	cctcctgcct	gccatttact	gggacaccag	840
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gaggctttat ctctcagggg gggtaagt gccgttgca ataatgcgt cttattttt	3240
tagccccgt aatatttt actgttaagt agcaatcaga gtataatgtt tatggtgaca	3300
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aaaaaaaaara aaaaaaaaaa aaaaaaaaataa aaaaaaaaaa	3410

<210> 111
<211> 1289
<212> DNA
<213> Homo sapien

<400> 111	
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ccatcgagt ctteagette attaagacca ttagtgatect cttcaatttgc tcatcttc	180
tgtgtgggtgc agccctgttg gcagtgccca tctgggtgtc aatcgatggg gcatccttc	240
tgaagatctt cgggcccactg tcgtccagtg ccatcgagt tgtcaacgtg ggctacttcc	300
tcatcgccgc cggcggtgtg gtcttgctc ttggtttcctt gggctgttat ggtgctaaga	360
ctgagagcaa gtgtgcctc gtgacgttct ttttcatcct cttcctcata ttcattgtgt	420
aggttgcacgc tgctgtgtc gccttgggtt acaccacaat ggctgagcac ttcttgacgt	480
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ggaacaccac catgaaagggtt ctcaagtgtt gtggcttcac caactatacg gattttgagg	600
actcacccta cttcaaaagag aacagtgcct ttccccattt ctgttgcata gacaacgtca	660
ccaaacacagc caatgaaacc tgccaccaagc aaaaggctca cgacaaaaaa gtagagggtt	720
gcttcatatca gctttgtat gacatccgaa ctaatgcgtt caccgtgggt ggtgtggcag	780
ctggaaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc	840
tacaataagt ccacttctgc ctctgccact actgctgcca catggaaact gtgaagaggc	900
accctggcaa gcagcgttga ttggggagg ggacaggatc taacaatgtc acttgggcca	960
gaatggaccc gccccttctg ctccagactt ggggcttagat agggaccact ctttttagcg	1020
atgcctgact ttccttccat tggtgggtgg atgggtgggg ggcattccag agctctaaag	1080
gtagccagtt ctgttgcctt ttccccactt ctattaaacc cttgatatgc ccccttaggcc	1140
tagtggat cccagtgttca tactggggaa tgagagaaaag gcattttata gctggggcat	1200
aagtggaaatc agcagagcctt ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc	1260
tgttacaatgtt taaaaaaaaaaa aaaaaaaaaa	1289

<210> 112
<211> 315
<212> PRT
<213> Homo sapien

<400> 112	
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln	
1 5 10 15	
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe	
20 25 30	
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala	
35 40 45	
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu	
50 55 60	
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro	
65 70 75 80	
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser	
85 90 95	
Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys	
100 105 110	
Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Val Ile Phe	
115 120 125	
Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe	
130 135 140	

Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys
 145 150 155 160
 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu
 165 170 175
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Arg Gln
 180 185 190
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu
 195 200 205
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr
 210 215 220
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp
 225 230 235 240
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val
 245 250 255
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg
 260 265 270
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly
 275 280 285
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly
 290 295 300
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
 305 310 315

<210> 113
 <211> 553
 <212> PRT
 <213> Homo sapien

<400> 113

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 1 5 10 15
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
 20 25 30
 Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
 145 150 155 160
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
 165 170 175
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
 180 185 190
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His

225	230	235	240
Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu			
245	250	255	
Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg			
260	265	270	
Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe			
275	280	285	
Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val			
290	295	300	
Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly			
305	310	315	320
Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu			
325	330	335	
Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg			
340	345	350	
Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala			
355	360	365	
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu			
370	375	380	
Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala			
385	390	395	400
Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly			
405	410	415	
Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu			
420	425	430	
Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala			
435	440	445	
Gly Gly Ser Gly Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser			
450	455	460	
Ala Cys Asp Val Ser Val Arg Val Val Gly Glu Pro Thr Glu Ala			
465	470	475	480
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp			
485	490	495	
Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser			
500	505	510	
Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala			
515	520	525	
Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp			
530	535	540	
Lys Ser Asp Leu Ala Lys Tyr Ser Ala			
545	550		

<210> 114
<211> 241
<212> PRT
<213> Homo sapien

<400> 114			
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20	25	30	
Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser			
35	40	45	
Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly			
50	55	60	
Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr			
65	70	75	80

Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
 115 120 125
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
 130 135 140
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
 145 150 155 160
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
 165 170 175
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
 180 185 190
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
 195 200 205
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
 210 215 220
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
 225 230 235 240
 Gln

<210> 115
 <211> 366
 <212> DNA
 <213> Homo sapien

<400> 115

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ttgggttgtg aatccatctt gcttttccc cattggaact agtcattaac ccacatctgt	180
actgttagaa aaacatctga agagctagtc tatcagcatc tgacaggtga attggatgg	240
tctcagaacc atttcaccca gacagcctgt ttctatcctg tttataaaat tagttgggt	300
tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt	360
tttagc	366

<210> 116

<211> 282
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 116

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gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa	120
agactttact atttcataat tttaaagacac atgattttatc ctattttagt aacctggttc	180
atacgtaaa caaaggataa tgtgaacacgc agagaggatt tttggcaga aaatctatgt	240
tcaatctnga actatctana tcacagacat ttctattcct tt	282

<210> 117

<211> 305
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(305)
 <223> n = A,T,C or G

<400> 117
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 tatttatect ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
 aataaggcaa aatatatgaa acaacaggc tcgagatatt gcaaatcagt caatgaagga 180
 tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240
 gactgccccca gcttactgcc tgttagaggt ttctangctg cagttcagac agggagaaat 300
 tgggt 305

<210> 118
 <211> 71
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(71)
 <223> n = A,T,C or G

<400> 118
 accaagggtgt ntgaatctct gacgtgggaa tctctgattt ccgcacaatc tgagtggaaa 60
 aantccctggg t 71

<210> 119
 <211> 212
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(212)
 <223> n = A,T,C or G

<400> 119
 actccggttt gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60
 gaaaatgggg taaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120
 agtaagctgg ccottctaat aaaagaaaaat taaaagggtt ctcaactaanc ggaattaant 180
 aatggantca aganactccc aggccctcagc gt 212

<210> 120
 <211> 90
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(90)
 <223> n = A,T,C or G

<400> 120
 actcggttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggcttgcc 60
 ctccgcggc gcagaacatg ctgggttgt 90

<210> 121
 <211> 218
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(218)
 <223> n = A,T,C or G

<400> 121
 tgtancgtga anacgacaga nagggttgc aaaaatggag aanccttcaa gtcattttga 60
 gaataagatt tgctaaaaga tttggggcta aaacatggtt attgggagac atttctgaag 120
 atatncangt aaattangga atgaattcat ggttcttttgc ggaattcctt tacgatngcc 180
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 122
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60
 catttgttag ctcatggAAC aggaagtCGG atgggtggggc atcttcagtG ctgcatgagt 120
 caccacCCCG gcggggTCAT ctgtgccaca gttccctgtt gacagtgcgg t 171

<210> 123
 <211> 76
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 ttagcggtga agacnacaga atgggtgtg ctgtgtatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acttttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttggaaaag aggtatagc tttcagagg acttgtgact tttgtcaga tgctgaagaa 120

ctacagtctg cattggcag aaatgaagat gaattggat taaatgagga tgctgaagat	180
ttgcctcacc aaacaaaaatg gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg	240
ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcataatcc	300
catggtgggg gtcttgcatc tgtaagaatg gaatttgattt tgctttgca agaatctcag	360
cagggaaacat cagaaccact attttcttagc cctctgtca agcaaacctc agtgcctctc	420
ctcttgctt gt	432
<210> 126	
<211> 112	
<212> DNA	
<213> Homo sapien	
<400> 126	
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcaact ttctaaaccat	60
agtaagaatg atattcccc ccagggatca ccaaataattt ataaaaattt gt	112
<210> 127	
<211> 54	
<212> DNA	
<213> Homo sapien	
<400> 127	
accacgaaac cacaaacaag atggaagcat caatccactt gccaaagcaca gcag	54
<210> 128	
<211> 323	
<212> DNA	
<213> Homo sapien	
<400> 128	
acccatttag taattgtttt gttgtttcat tttttctaa tgtctcccct ctaccagctc	60
acctgagata acagaatgaa aatggaagga cagccagatt tctccttgc tctctgtca	120
ttctctctga agtctagggtt acccattttg gggaccattt ataggcaata aacacagttc	180
ccaaaggattt tggacagttt ctttgtgtgt tttagaatgg ttttccctttt tcttagcctt	240
ttccctgcaaa aggctcactc agtcccttgc ttgctcagtg gactgggctc cccaggccct	300
aggctgcctt cttttccatg tcc	323
<210> 129	
<211> 192	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(192)	
<223> n = A,T,C or G	
<400> 129	
acatacatgt gtgttatattt ttaaatatca cttttgtatc actctgactt ttttagcatac	60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc	120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg	180
gataaaacaaa gt	192
<210> 130	
<211> 362	
<212> DNA	
<213> Homo sapien	

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<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

<400> 130
cccttttta tggaaatgagt agactgtatg tttgaanatt tanccacaac ctcttgaca      60
tataatgacg caacaaaaag gtgctgtta gtcctatggc tcagttatg cccctgacaa     120
gtttccattg tgccccgcg atcttctggc taatcgtggc atcctccatg ttatttagaa     180
ttctgttattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata    240
cttatttaaa agctcttatt ttgtggcat taaaatggca atttatgtgc agcactttat    300
tgcagcagga agcacgtgtg gggtgggtgt aaagctctt gctaattctta aaaagtaatg    360
gg                                         362

<210> 131
<211> 332
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 131
ctttttgaaa gatcgtgtcc actcctgtgg acatcttgg ttaatggagt ttcccatgca      60
gtangactgg tatgggtgca gctgtccaga taaaacatt tgaagagtc caaaatgaga     120
gttctcccg gttcgccctg ctgctccaag ttcagcagc agcctcttt aggaggcatc     180
ttctgaacta gattaaggca gcttggtaat ctgatgtgat ttggtttatt atccaactaa    240
cttcoatctg ttatcaactgg agaaagccca gactccccan gacnggtacg gattgtggc    300
atanaaggat tgggtgaagc tggcgtgtg gt                                         332

<210> 132
<211> 322
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

<400> 132
acttttgcca ttttgtatataaaacaatc ttgggacatt ctctgaaaa ctaggtgtcc      60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat    120
ctcaaattcc caaacagggg ctctgtgggaaaatgaggg aggaccttg tatctcggt     180
tttagcaagt taaaatgaat atgacaggaa aggcttattt atcaacaaag agaagagttg   240
ggatgcttct aaaaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaaagcct 300
gtaacaatct acaattggtc ca                                         322

<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)

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<223> n = A,T,C or G

<400> 133

acaaggccttc acaagtttaa ctaaattggg attaatctt ctgtanttat ctgcataatt	60
cttgttttc tttccatctg gtcctgggt tgacaatttg tggaaacaaac tctattgcta	120
ctattaaaaaaa aaaatcacaa atcttcctt ttaagctatg tttaattcaa actattcctg	180
ctattcctgt tttgtcaag aaattatatt ttcaaaaata tgtntatttg tttgatgggt	240
cccacgaaac actaataaaa accacagaga ccagcctg	278

<210> 134

<211> 121

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(121)

<223> n = A,T,C or G

<400> 134

gtttanaaaaa cttgttagc tccatagagg aaagaatgtt aaactttgta ttttaaaaaca	60
tgattctctg aggttaaact tggtttcaa atgttatttt tacttgtatt ttgctttgg	120
t	121

<210> 135

<211> 350

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(350)

<223> n = A,T,C or G

<400> 135

acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc	60
atancaagtg gtgactgggt aagcgctgcga caaagggtcag ctggcacatt acttgtgtgc	120
aaacttgata ctittgttct aagttaggaac tagtatacag tncctaggan tggtaactcca	180
gggtgcccccc caactcctgc agccgctct ctgtgccagn ccctgnaagg aactttcgct	240
ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag	300
ttcccaagga tgcaaagct ggtgctcaac tccctggggcg tcaactcagt	350

<210> 136

<211> 399

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(399)

<223> n = A,T,C or G

<400> 136

tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggcaggggtt	60
gctgtgattt tatccgaata ntccctcgta gaaaagataa tgagatgacg tgagcagcct	120
gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttgctctga	180
cctggcgcc agccagccag ccacaggtgg gcttcttcct ttgtgttga caacnccaag	240
aaaactgcag aggcccagg tcaggtgtta gtgggtangt gaccataaaa caccaggtgc	300

tcccaggaac ccgggcaaag gccatcccc cctacagcca gcatgccac tggcgtgatg	360
ggtgcagang gatgaagcag ccagntgttc tgctgtggt	399
<210> 137	
<211> 165	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(165)	
<223> n = A,T,C or G	
<400> 137	
actgggtgtgg tnggggggtga tgctgggtgtt anaagttgan gtgacttcan gatgggtgtgt	60
ggaggaaagtg tgtgaacgtt gggatgtaga ntttttggcc gtgctaaatg agcttcggga	120
ttggctggtc ccactgggtgg tcactgtcat tggtggtgtt cctgt	165
<210> 138	
<211> 338	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(338)	
<223> n = A,T,C or G	
<400> 138	
actcaactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc	60
ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgccaa	120
tgctgggcag tctcccatgc ctccacagt gaaagggctt gagaaaaatc acatccaatg	180
tcatgtgttt ccagccacac caaaagggtgc ttgggtggta gggctggggg catananggt	240
cangccctcag gaagcctcaa gttccattca gcattgccac tgtacattcc ccatntttaa	300
aaaaactgtat gcctttttttt tttttttttaaaaattc	338
<210> 139	
<211> 382	
<212> DNA	
<213> Homo sapien	
<400> 139	
ggaaatcttg gttttggca tctgggttgc ctatagccga ggccactttg acagaacaaa	60
gaaaggact tcgagtaaga aggtgattt cagccagcct agtgccegaa gtgaaggaga	120
attcaaacag acctcgtcat tctgggtgtg agcctggctg gtcacccgccc tatcatctgc	180
atttggctta ctcaggtgtc accggactct ggccctgtat gtctgttagtt tcacaggatg	240
ccttatttgt cttctacacc ccacaggccc ccctacttct tcggatgtgt ttttaataat	300
gtcagctatg tgccccatcc tccttcatgc ctcctccccc ttccctacca ctgctgagtg	360
gcctgaaact tgtttaaatgt	382
<210> 140	
<211> 200	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(200)	

<223> n = A,T,C or G

<400> 140

acccaaanctt	ctttctgttg	tgttngattt	tactataggg	gttngcttn	ttctaaaat	60
acttttcatt	taacancttt	tgttaagtgt	caggctgcac	tttgctccat	anaatttattg	120
ttttcacatt	tcaacttgta	tgtgttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

acttttatttt	caaaaacactc	atatgttgc	aaaaaacacat	agaaaaataa	agtttggg	60
gggtgctgac	taaacttcaa	gtcacagact	tttatgtgac	agattggagc	agggtttgtt	120
atgcatgttag	agaacccaaa	ctaatttatt	aaacaggata	gaaacaggct	gtctgggtga	180
aatggttctg	agaaccatcc	aattcacctg	tcaagatgtg	atanactagc	tcttcagatg	240
tttttctacc	agttcagaga	tnggttaatg	actantcca	atggggaaaa	agcaagatgg	300
attcacaaac	caagtaattt	taaacaaaaga	cactt			335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

accaggttaa	tattgccaca	tatatcctt	ccaaattgcgg	gctaaacaga	cgtgtattta	60
gggttgtta	aagacaaccc	agcttaatat	caagagaaat	tgtgaccctt	catggagttat	120
ctgatggaga	aaacactgag	ttttgacaaa	tcttattttt	tccagatagc	agtctgatca	180
cacatggtcc	aacaacactc	aaataaaaaa	tcaaataatna	tcaagatgtt	aagattggtc	240
ttcaaaacatc	atagccaatg	atgccccgct	tgcctataat	ctctccgaca	taaaaccaca	300
tcaacacctc	agtggccacc	aaaccattca	gcacagcttc	cttaactgtg	agctgtttga	360
agctaccagt	ctgagcacta	ttgactatnt	tttcangct	ctgaatagct	ctagggatct	420
cagcangggt	gggaggaacc	agctcaacct	tggcgta			459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

acatttcctt	ccaccaagtc	aggactcctg	gcttctgtgg	gagttcttat	cacctgaggg	60
aaatccaaac	agtctctct	agaaaggaat	agtgtcacca	accccaccca	tctccctgag	120
accatccgac	ttccctgtgt					140

<210> 144

<211> 164

<212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

 <400> 144
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatctt gtcattttct 60
 atctatacca ctctcccttc tgaaaacaan aatcaactanc caatcaactt tacaatattg 120
 aggcaattaa tccatattt tttcaataa ggaaaaaaaaag atgt 164

 <210> 145
 <211> 303
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

 <400> 145
 acgttagacca tccaactttt tattttaat ggcaaacatc cagnagcaat tcctaaacaa 60
 actggagggt atttataccc aattatccc ttcatcaaca tgccctccctc ctcaggctat 120
 gcaggacagc ttcataagt cggcccgagc atccagatac taccatttgt ataaacttca 180
 gttaggggagt ccatccaagt gacaggctca atcaaaggag gaaatggaac ataagcccag 240
 tagaaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300
 caa 303

 <210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

 <400> 146
 actgcagctc aattagaagt ggtctctgac ttcatcanc ttctccctgg gctccatgac 60
 actggcctgg agtactcat tgctctgggt ggtttagaga gtcctttgc caacaggcc 120
 ccaagtcagg gctgggattt gtttcccttc cacattctag caacaatatg ctgccactt 180
 cctgaacagg gaggggtggga ggagccagca tgaacaagc tgccacttca taaagtagcc 240
 agacttgccc ctgggcctgt cacacctact gatgaccccttca tgcctgca ggatggaatg 300
 taggggtgag ctgtgtgact ctatgt 327

 <210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147
 acattgtttt tttgagataa agcattgana gagcttcct taacgtgaca caatggagg 60
 actgaacac atacccatat ctttgtctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agtccatgt ttatagccctaa gtt 173

<210> 148
 <211> 477
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 148
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcactgtgcc tttctatcct 60
 atggatata ttatgtatg ctccatttca toacacatata atgaataata caectcatact 120
 gccctactac ctgctgcaat aatcacattc ctttcctgtc ctgaccctga agccattggg 180
 gtggccttag tggccatcaag tccangcctg caccttgagc ctttgagctc cattgtcac 240
 nccanccac ctcaccgacc ccattctt acacagctac ctccttgctc tctaaccac 300
 tagattatnt ccaaatttcaag tcaattaagt tactattaac actctacccg acatgtccag 360
 caccacttgtt aagccttctc cagccaacac acacacacac acacncacac acacacatata 420
 ccaggcacag gtcacccatc ttccacaatc accccttaa ttaccatgtc atggtgg 477

<210> 149
 <211> 207
 <212> DNA
 <213> Homo sapien

<400> 149
 acagttgtat tataatatca agaaataaaac ttgcaatgag agcatttaag agggagaac 60
 taacgtat tagagagcca aggaaggaaa ctgtggggag tggatgtaa ggtggggcct 120
 gatgataaat aagagtccgc caggtaagtg ggtgggtgtgg tatgggcaca gtgaagaaca 180
 tttcaggcag agggaaacagc agtggaa 207

<210> 150
 <211> 111
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(111)
 <223> n = A,T,C or G

<400> 150
 accttgattt cattgctgct ctgatggaaa cccaactatc taattttagct aaaacatggg 60
 cacttaaatg tggcagtgt ttggacttgc taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgccggcag gtcataattga acattccaga tacctatcat tactcgatgc tggataac 60

agcaagatgg ctttgaactc agggtcacca ccagctattg gaccctacta tgaaaaccat	120
ggataccaac cgaaaaaccc ctatcccgca cagcccactg tggccccac tgtctacgag	180
gtgcatccgg ctcagt	196
<210> 152	
<211> 132	
<212> DNA	
<213> Homo sapien	
<400> 152	
acagcacctt cacatgttaag aaggagaaa ttccctaaatg taggagaag ataacagaac	60
cttcccctt tcatacttagt gtggaaacct gatgctttat gttgacagga atagaaccag	120
gagggagttt gt	132
<210> 153	
<211> 285	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(285)	
<223> n = A,T,C or G	
<400> 153	
acaanaccca ngnanaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag	60
cttctgtct tatgtcttca tctgacaact ctttaccatt tttatctctg ctacgcagga	120
gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac	180
cctggctagt gagggtgtccgg cgccgcctt ggatgacggc atctgtgaag tcgtgcacca	240
gtctgcaggg cctgttggaaag cgccgtccac acggagtnag gaatt	285
<210> 154	
<211> 333	
<212> DNA	
<213> Homo sapien	
<400> 154	
accacagtcc tggggggcca gggcttcatg accctttctg tgaaaagcca tattatcacc	60
accccaaatt tttcccttaaa tatctttaac tgaagggggtc agccttctga ctgcaaagac	120
cctaagccgg ttacacacgt aactcccact ggccctgtatt tgtgaaattt ctgctgcctg	180
attggcacag gagtcgaagg tggtagctc ccctcttccg tggAACgaga ctctgatttg	240
agtttcacaa attctcgggc cacctcgta ttgtctctt gaaataaaat ccggagaatg	300
gtcaggcctg tctcatccat atggatcttc cgg	333
<210> 155	
<211> 308	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(308)	
<223> n = A,T,C or G	
<400> 155	
actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg	60
gaaagtgcctt tgggaactgt aaagtgccta acacatgatc gatgatttt ttataatat	120
ttgaatcagc gtgcatacaa actctccgtc ctgctccctcc tggccccag cccagcccc	180

atcacagctc actgctctgt tcattccaggc ccagcatgta gtggctgatt cttcttggct	240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcatgctg	300
gcccctgg	308
<210> 156	
<211> 295	
<212> DNA	
<213> Homo sapien	
<400> 156	
accttgctcg gtgcttgaa catatttaga actcaaaaata tgagatgata acagtgccta	60
ttattttagata ctgagagaac tgtagacat tttagtgaag attttctaca caggaactgaa	120
gaataggaga ttatgtttgg ccctcatatt ctctcctatc ctccttgct cattctatgt	180
ctaataatattt ctaaatcaaa taaggtagc ataatcagga aatcgaccaa ataccaatata	240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat	295
<210> 157	
<211> 126	
<212> DNA	
<213> Homo sapien	
<400> 157	
acaagtttaa atagtgttgtt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct	60
gaagagcaaa acaaattctg tcatgtaaatc tctatcttgg gtcgtggta tatctgtccc	120
ctttagt	126
<210> 158	
<211> 442	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(442)	
<223> n = A,T,C or G	
<400> 158	
acccactggc cttggaaaca cccatcccta atacgtatgtat ttttctgtcg tttgaaaaatg	60
aancacgacgac gctgcccccta gtcagtcctt cttccagag aaaaagagat ttgagaaaagt	120
gcctgggtaa ttcaccatata atttccccc ccaaactctc tgagtcttcc cttaatattt	180
ctgggtggtc tgacccaaagc aggtcatggt ttgttgagca tttggatcc cagtgaaatgt	240
natgtttgttgc ccttgcata ctttagccctt cccacgcaca aacggagtgg cagagtgg	300
ccaaacctgtt tttcccgatc cacgtagaca gattcacatgt gcgaaattctt ggaagctgg	360
nacagacggg ctctttgcag agccgggact ctgagangga catgaggggcc tctgcctctg	420
tgttcatttttctt ctgtatgtctt gt	442
<210> 159	
<211> 498	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(498)	
<223> n = A,T,C or G	
<400> 159	
acttccaggt aacgttggttt tttccgttga gctgaaactg atgggtgacg ttgttaggttc	60

tccaaacaaga actgagggttg cagagcgggtt agggaaagagt gctgttccag ttgcacccgg	120
gctgctgtgg actgttgttg attcctcaact acggcccaag gttgtggaac tggcanaaag	180
gtgtgtgtt gganttgagc tcggggggct gtggtaggtt gtgggtctt caacaggggc	240
tgctgtgtt ccgggangtg aangtgtgtgt tcacttgaa cttggccagc tctggaaagt	300
antanattct tcctgaaggc cagcgcttgtt ggagctggca ngggtcantg ttgtgtgtaa	360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatgggtcn	420
tcaggttana atgtgttttc agtgcctgtt gcngctgtt gaaggtttaa nattgtcacc	480
aaggaaataa gctgtgtt	498
<210> 160	
<211> 380	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(380)	
<223> n = A,T,C or G	
<400> 160	
acctgcatcc agttcccttg ccaaactcac aaggagacat caacctctag acaggaaac	60
agcttcagga tacttccagg agacagagcc accagcagca aaacaatat tcccatgcct	120
ggagcatggc atagaggaag ctgaaaatg tgggtctga ggaagccatt tgagtctggc	180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgacccca gatgcctctc	240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg	300
gagaaaaatg gcagtttgcac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa	360
ctttagaat gaaggctggaa	380
<210> 161	
<211> 114	
<212> DNA	
<213> Homo sapien	
<400> 161	
actccacatc ccctctgagc aggcgggtgt cgttcaaggt gtatggcc ttgcctgtca	60
cactgtccac tggccctta tccacttgtt gcttaatccc tcgaaagagc atgt	114
<210> 162	
<211> 177	
<212> DNA	
<213> Homo sapien	
<400> 162	
actttctgaa tcgaatcaaa tgatacttag tggatgtttt atatcctcat atatataaaa	60
gttttactac tctgataatt ttgttaaacca ggtaaccaga acatccagtc atacagcttt	120
tggatata taacttggca ataaccagg ctggtgatac ataaaactac tcactgt	177
<210> 163	
<211> 137	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(137)	
<223> n = A,T,C or G	
<400> 163	

catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc	60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt	120
catcagcggc atgatgt	137
<210> 164	
<211> 469	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(469)	
<223> n = A,T,C or G	
<400> 164	
cttatacaca tgaatgttct cctggcagc gttgtatct ttgccacctt cgtgacttta	60
tgcaatgcat catgctattt catacctaattt gagggagttc caggagattt aaccaggaaa	120
tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt	180
gagacatgca ctgtctacga aacagaaattt tcatgttgca cccttggttt tacacctgtg	240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgaa gtatatcgtg	300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgt	360
tcttagggc acagggttcc caggccaggc ctcattctcc tctggcctct aatagtcaat	420
gatttgttag ccatgcctat cagtaaaaag atntttgagc aaacacttt	469
<210> 165	
<211> 195	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(195)	
<223> n = A,T,C or G	
<400> 165	
acagtttttt atanatatcg acattggccgg cacttgcgtt cagtttcata aagctgggg	60
atccgcgtgc atccactattt ccttggctag agtaaaaattt attcttatacg cccatgtccc	120
tgcaggccgc ccggccgtag ttctcggtcc agtcgtcttg gcacacaggg tgccaggact	180
tcctctgaga tgagt	195
<210> 166	
<211> 383	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(383)	
<223> n = A,T,C or G	
<400> 166	
acatcttagt agtgtggcac atcagggggc catcagggtc acagtcaactc atagcctcgc	60
cgaggtcgga gtccacacca ccgggttagg tggctcaat cttggcctt ggcggccacct	120
ttggagaagg gatatgtgc acacacatgt ccacaaaggc tggactcgg ccaaagaattt	180
tttgcagacc agcctgagca agggccggat gttcagcttc agtcctcct tcgtcagggt	240
gatgccaacc tcgtctangg tccgtggaa gttgggttcc acntcaccta caacctgggc	300
gangatctta taaagaggtt ccnagataaa ctccacgaaa cttctctggg agtgcgtat	360
ngggccttt ttggtaact ttc	383

<210> 167
 <211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtgcgat 60
 tggagcagaa actggagcaa gaagtggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctgaaac actggtcatg acanaggcag tgactctgac 240
 tgangtc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt ttcttagaaag tggaaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan cttgttctt cacnactgtc tatactgana gtgtcatgtt tccacaaagg 120
 gctgacacct gaggctgnat ttctactcat ccctgagaag ccctttccag tagggtgccc 180
 aattcccaac ttcttgcca caagcttccc aggcttctc ccctggaaaa ctccagcttg 240
 agtcccagat acactcatgg gtcgcctgg gca 273

<210> 169
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 169
 acaggcttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60
 agctcagacc agggtaaaag gatgtacat caacagttc tggttcaga acaggttcta 120
 ctactgtcaa atgacccccc atacttcctc aaaggctgtg gtaagtttg cacaggtgag 180
 ggcagcagaa agggggtant tactgatgaa caccatctc tctgtatact ccacactgac 240
 cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcactgctgg gcaccagctc 300
 acgcacatca ctgacaaccc ggatggaaaa agaantgcca acttcatac atccaactgg 360
 aaagtgtatct gatactggat tcttaattac ctcaaaagc ttctggggc catcagctgc 420
 tcgaacactg a 431

<210> 170
 <211> 266
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 170

acctgtggc tggctgtta tgcctgtgcc ggctgctgaa agggagttca gaggtggagc	60
tcaaggagct ctgcaggcat ttggccaanc ctctccanag canagggagc aacctacact	120
ccccgctaga aagacaccag attggagtcc tgggggggg agttgggttgc ggcatttgat	180
gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct	240
tcaaagctag gggctggca ggtgg	266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcaaaaaaaa tcataaaacgg cgaggactgc agcccgact cgcagccctg gcaggcggca	60
ctggcatgg aaaacgaatt gttctgtcg ggcgtccttg tgcattcgca gtgggtgctg	120
tcagccgac actgtttcca gaagttagtgc cagagctctt acaccatcggt gctggccctg	180
cacagtcttggg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgt	240
cggcaccctgg agtacaacag acccttgctc gctaaccgacc tcatgtcat caagttggac	300
gaatccgtgt ccgagtcgtga caccatccgg agcatcagca ttgcttcgtca gtgccttacc	360
gcggggacta cttgcctctt ttctggctgg ggtctgtctt cgaacggcag aatgcctacc	420
gtgctgcagt gctgtacgt gtcgtgggt tctgaggagg tctgcagtaa gctctatgac	480
ccgctgttacc acccccacat gttctgcgc ggcggggggc aagaccagaa ggactccctgc	540
aacgtgtact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgcgtcttcc	600
ggaaaagccccc cgtgtggcca agttggctgt ccaggtgtctt acaccaaccc ctgcaaaattc	660
actgagtggaa tagagaaaac cgtccaggcc agttaactct gggactggg aacccatgaa	720
attgacccccc aaatacatccc tgccggaaatg attcaggaaat atctgttccc agccctcttcc	780
ccctcaggccc caggagtcca ggcggccccc ccctccccc tcaaaccac ggtacagatc	840
cccaacccccc cctccctccat acccaggagt ccagacccccc cagccctcc tccctccat	900
ccaggaggccc agcccccctt ccctccatccc caggagtccca gaccccccag cccctccccc	960
ctcagacccca ggggtccagg ccccaacccc ctccctccccc agactcagag gtccaaagccc	1020
ccaaacccntcc attccccccaga cccaggggtc cagggtccccc cccctccntcc ctcagacccca	1080
gcgggtccaaat gccacccatgg ctntccctgtt acacagtggcc cccttggc acgttgaccc	1140
aacccatggcc gttgggtttt catttttngt cccttccccc tagatccaga aataaagttt	1200
aagagaagng caaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa	1248

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15
 Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65 70 75 80
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85 90 95
 Cys Ala Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100 105 110
 Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115 120 125
 Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130 135 140
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145 150 155

<210> 173
 <211> 1265
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1265)
 <223> n = A,T,C or G

<400> 173

ggcagccgc	actcgacgcc	ctggcaggcg	gcactggta	tggaaaacga	attgttctgc	60
tcggcgatcc	ttgtgcatcc	gcagtgggtg	ctgtcagccg	cacactgttt	ccagaactcc	120
tacaccatcg	ggctgggcct	gcacagtctt	gaggccgacc	aagagccagg	gagccagatg	180
gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gacccttgc	cgctaacgc	240
ctcatgtca	tcaagtttga	cgaatccgtg	tccgagtctg	acaccatccg	gagcatcagc	300
attgttctgc	agtgcctac	cgcgggaaac	tcttgcctcg	tttctggctg	gggtctgtcg	360
gcgaacggtg	agctcacggg	tgtgtgtctg	cccttctcaa	ggaggtcctc	tgcccagtcg	420
cggggctgta	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgtcg	cagtgcgtga	480
acgtgtcggt	ggtgtctgag	gaggctgtca	gtaagctcta	tgaccgcgt	taccacccca	540
gcatgttctg	ccccggcgga	gggcaagacc	agaaggactc	ctgcaacgg	gactctgggg	600
ggccacctgat	ctgcaacggg	tacttgcagg	gccttgtgtc	tttcggaaaa	gccccgtgt	660
gccaaggtag	cgtgccaggt	gtctacacca	acctctgca	attcaactgag	tggatagaga	720
aaaccgttcca	ggcccgatcaa	ctctgggac	tggaaaccca	tgaaattgac	ccccaaatac	780
atccctgcgg	aggaattca	gaatatgt	tcccagcccc	tcctccctca	ggcccaggag	840
tccaggcccc	cagccctc	tccctcaa	caagggtaca	gatecccc	ccctccccc	900
tcagacccag	gagtccagac	cccccagccc	ctccctcc	agacccagg	gtccagcccc	960
tcctccntca	gaccaggag	tccagacccc	ccagcccc	ctccctcaga	cccagggtt	1020
gaggcccca	acccctc	tttcagagtc	agaggtccaa	gcccccaacc	cctcg	1080
cagacccaga	gttnnagg	ccagccctc	ttccntcaga	cccagnngt	caatgccacc	1140
tagattttcc	ctgnacacag	tgccccctt	tgnangtt	acccaac	tttaccagt	1200
ttttcat	ttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1260
aaaaaa						1265

<210> 174
 <211> 1459
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1459)

<223> n = A,T,C or G

<400> 174

ggtcagccgc acactgtttc cagaagttag tcagagctc ctacaccatc gggctggcc	60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg	120
tacggcaccc agagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg	180
acgaatccgt gtccgagttc gacaccatcc ggagcatca gattgttgc cagtgcctta	240
cccgccccaa ctcttgcctc gtttgcgtt ggggtctgt ggcgaacggt gagctcacgg	300
gtgtgtgtct gccctttca aggaggtctt ctgcccagtc ggggggctg acccagagct	360
ctgcgtccca ggcagaatgc ctaccgtgt gcagtgcgtg aacgtgtcg tgggtctga	420
ngaggtctgc antaagttt atgaccggcgtt gtaaccacccc ancatgttct gcgcggcgg	480
agggcaagac cagaaggact cctcaacgtt gagagagggg aaaggggagg gcaggcgact	540
cagggaaaggg tggagaaggg ggagacagag acacacaggg ccgcattggcg agatgcagag	600
atggagagac acacaggggg acagtgcacaa cttagagagaa aaactgagag aaacagagaa	660
ataaacacag gaataaaagag aagcaaagga agagagaaaac agaaacagac atggggaggc	720
agaaacacac acacatagaa atgcatttgc ctttccaaca gcatggggcc tgaggccgtt	780
gacctccacc caatagaaaa ttcttttata acttttgact ccccaaaaac ctgactagaa	840
atagcctact gttgacgggg agccttacca ataacataaa tagtcattt atgcatacgt	900
tttatgcatt catgatatac ctttgttgc attttttgtt atttctaagc tacacagttc	960
gtctgtgaat ttttttaat tggtaact ctccctaaat ttttctgtat tggtaatttga	1020
aaaaatccaa gtataagtgg acttggcat tcaaccagg gttgtcaag ggtcaactgt	1080
gtacccagag gaaacagtg acacagattc atagagggtga aacacgaaga gaaacaggaa	1140
aaatcaagac tctacaaaga ggctggccag ggtggctcat gcctgtatcc cccacttt	1200
gggaggcgag gcaggcagat cacttggaggt aaggagttca agaccagct gcccggat	1260
gtggaaatct gtctgtacta aaaatacaaa agtttagctgg atatggggc agggccctgt	1320
aatcccagct acttggggagg ctgaggcagg agaattgtttt gaatatggg ggcagaggtt	1380
gaagttagttt gagatcacac cactatactc cagctgggc aacagagtaa gactctgtct	1440
aaaaaaaaaaaa aaaaaaaaaaaaa	1459

<210> 175

<211> 1167

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1167)

<223> n = A,T,C or G

<400> 175

gcccggccct ggcaggcgcc actggcatg gaaaacgaat tggctgttc gggcgctctg	60
gtgcattccgc agtgggtgtt gtcagccgca cactgtttcc agaactccca caccatcgcc	120
ctggccctgc acagtcttgc ggccgaccaa gagccaggaa gcccagggtt ggaggccagc	180
ctctccgtac ggcacccaga gtacaaacaga ctcttgcgtt ctaacgacccatcatgttcatc	240
aagttggacg aatccgtgtc cgagttgtac accatccggaa gcatcagcat tggcttgcag	300
tgccttaccg cggggaaactc ttgcctcgtn tctggctggg gtctgtggc gaacggcaga	360
atgccttaccg tgctgtactg cgtgaacgtt tcgggtgtt ctgaggangt ctgcagtaag	420
ctctatgacc cgctgtacca ccccaacatg ttctgcggcc gcccggggca agaccagaag	480
gactccgtca acgggtactc tggggggccc ctgatctgca acgggtactt gcaaggccctt	540
gtgtcttgc gaaaagccccc gtgtggccaa ctggcggtt caggtgtcta caccaccc	600
tgcaattca ctgagttgtt agagaaaaacc gtccagncca gttaaactctg gggactggg	660
accatgaaa ttgacccca aatacatccct gcggaangaa ttcaggaata tctgttccca	720
gcccctccct cctcaggccc aggatccag gccccccagcc cctcctccct caaaccagg	780

gtacagatcc ccagccccctc	ctccctcaga cccaggagtc	cagacccccc agccctcnt	840
ccntcagacc caggagtcca	gcccctcctc cntcagacgc	aggagtccag acccccccagc	900
ccntcntccg tcaagcccg	gggtgcaggc ccccaacccc	tcntccntca gagtcagagg	960
tccaagcccc caacccctcg	ttccccagac ccagaggtnc	aggtcccagc ccotcctccc	1020
tcagacccag cggtccaatg	ccaccttagan tntccctgta	cacagtgccc ccttgtggca	1080
ngttgaccca accttaccag	ttggtttttc atttttgtc	cctttccct agatccagaa	1140
ataaaagtnta agagaagcgc	aaaaaaaaa		1167

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

<400> 176																
Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	
1				5					10					15		
Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	
					20				25					30		
Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	
					35				40					45		
Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Leu	Leu	Leu	
					50				55					60		
Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	
					65				70					80		
Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	
					85				90					95		
Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met	
					100				105					110		
Pro	Thr	Val	Leu	His	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Xaa	Val	
					115				120					125		
Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	
					130				135					140		
Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	
					145				150					160		
Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	
					165				170					175		
Ala	Pro	Cys	Gly	Gln	Leu	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	
					180				185					190		
Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Xaa	Ser				
					195				200					205		

<210> 177
<211> 1119
<212> DNA
<213> Homo sapien

<400> 177

gcccactcgc	agccctggca	ggcggcactg	gtcatggaaa	acgaattgtt	ctgctcgccc	60
gtcctggtgc	atccgcagtg	ggtgctgtca	gccgcacact	gtttccagaa	ctcctacacc	120
atcgggctgg	gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatgggtggag	180
gccagcctct	ccgtacggca	cccagagtac	aacagaccct	tgctcgctaa	cgacacctatg	240
ctcatcaagt	tggacgaatc	cgtgtccgag	tctgacacca	tccggagcat	cagcattgct	300
tcgcagtgcc	ctaccgcggg	gaactcttgc	ctcggttctg	gctgggtct	gctggcgaac	360

gatgctgtga ttgccatcca gtcccatcact gtcggaggct gggagtgta gaagcttcc	420
caaccctggc agggttgtac catttcggca acttcaggta caaggacgtc ctgctgcata	480
ctcaactgggt gtcactact gtcactgca tcacccggaa cactgtgatc aacttagccag	540
caccatagtt ctccagaatgc agactatcat gattactgtg ttgactgtgc tggctattgt	600
actaaccatg ccgatgttta ggtgaaatta gcgtcaacttgc gcctcaacca tcttggatc	660
cagttatcct cactgaattt agatttcctg cttcagtgtc agccattcccc acataatttc	720
tgacctacag aggtgaggaa tcataatgc cttcaaggat gctggtaactc ccctcacaaa	780
ttcatttctc ctgtttagt gaaagggtgc ccctctggag cctcccaggg tgggtgtgca	840
ggtcacaatg atgaatgtat gatcggttcc catttaccca aaggctttaaa atccctatg	900
ctcagtacac cagggcagggt ctagcatttc ttcatatgt gtatgctgtc cattcatgca	960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcattgtc cctcccttggg	1020
gaggtgaggg agagggccca tggtaatg ggtctgtc agttgtaaca cattaggtgc	1080
ttaataaaaca gaagctgtga tggtaaaaaaa aaaaaaaaaa	1119

<210> 178

<211> 164

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(164)

<223> Xaa = Any Amino Acid

<400> 178

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp	
1 5 10 15	
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu	
20 25 30	
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val	
35 40 45	
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu	
50 55 60	
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser	
65 70 75 80	
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly	
85 90 95	
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val	
100 105 110	
Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu	
115 120 125	
Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg	
130 135 140	
Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser	
145 150 155 160	
Pro Gly Thr Leu	

<210> 179

<211> 250

<212> DNA

<213> Homo sapien

<400> 179

ctggagtgcc ttgggtttc aagccccgtc aggaaggcaga atgcaccttc tgaggcacct	60
ccagctgccc cccggccgggg gatgcgaggc tcggagcacc cttccccggc tggattgtct	120
gccaggact gttcatctca gctttctgt cccttgcctc ccggcaagcg ctctgtca	180
aagttcatat ctggagcctg atgtcttaac gaataaaggc cccatgtcc acccgaaaaa	240

aaaaaaaaaaa	250
<210> 180	
<211> 202	
<212> DNA	
<213> Homo sapien	
<400> 180	
actagtccag tgtggtgaa ttccattgtg ttgggcccaa cacaatggct accttaaca	60
tcaccaggac cccgccccctg cccgtcccc acgctgctgc taacgacagt atgatgctta	120
ctctgctact cgaaaaactat ttttatgtaa ttaatgtatg ctttcttgtt tataaatgcc	180
tgatttaaaa aaaaaaaaaaa aa	202
<210> 181	
<211> 558	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(558)	
<223> n = A,T,C or G	
<400> 181	
tccytttgkt naggtttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg	60
aatgttttagg cagtgttagt aatttcytcg taatgatct gtttattactt tcctnattct	120
ttatccctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aataaaaaaaa	180
ggttagtgtga tagtataagt atctaagtgc agatgaaaat gtgttataata tatccattca	240
aaattatgca agttagtaat tactcagggt taactaaattt actttaatata gctgttgaac	300
ctactctgtt ctttggctag aaaaaattt aacacaggact ttgttagttt gggaaagccaa	360
attgataata ttctatgttc taaaagttgg gctatacata aattatataag aaatatggaw	420
ttttattccc aggaatatgg kgttcattttt atgaatattt cscrggatag awgtwtgagt	480
aaaaycagtt ttggtwataa ygtwaatatg tcmtaaataaa acaakgtttt gacttatttc	540
aaaaaaaaaaa aaaaaaaaaaa	558
<210> 182	
<211> 479	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(479)	
<223> n = A,T,C or G	
<400> 182	
acagggwttk grggatgcta agscccrga rwyggttga tccaaccctg gcttwttttc	60
agagggaaaa atggggccta gaagtacag mscatytagy tggtgcmgt gcacccctgg	120
cstcacacag astcccgagt agctggact acaggcacac agtcaactgaa gcagggccctg	180
ttwgcaattc acgttgcac ctccaactta aacattcttc atatgtatg tccttagtca	240
ctaaggttaa actttccac ccagaaaagg caacttagat aaaatcttag agtactttca	300
tactmttcta agtcctcttc cagcctcaact kkgagtcctm cytgggggtt gataggaant	360
ntctcttggc tttctcaata aartctctat ycatctcatg ttaatttgg tacgcatara	420
awtgstgara aaattaaaat gttctggty mactttaaaa araaaaaaaaaaa aaaaaaaaaaa	479
<210> 183	
<211> 384	
<212> DNA	

<213> Homo sapien

<400> 183

aggcgggagc agaagctaaa gccaaagccc aagaagagtgc	60
actgtgccag cactggtgcc	
agtaccagta ccaataacag tgccagtgcc agtgcacca	120
ccagtgggtgg cttcagtgt	
ggtgccagcc tgaccgcccc tctcacattt gggcttctcg	180
ctggccttgg tggagctgg	
gccagcacca gtggcagctc tggtgcctgt ggtttctcata	240
acaagtggaga ttttagatat	
tgttaatccct gccagtctt ctcttcaagc cagggtgcatt	300
cctcagaaac ctactcaaca	
cagcactcta ggcagccact atcaatcaat tgaagttgac	360
actctgcatt aratctattt	
gccatttcaa aaaaaaaaaaaaaaaa aaaa	384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(496)

<223> n = A,T,C or G

<400> 184

accgaattgg gaccgctggc ttataagcga tcatgttynt	60
ccrgrtatkc ctcacacgagc	
agggagatcg agtctatacg ctgaagaaat ttgaccgcgt	120
gggacaacag acctgctcag	
cccattccctgc tccgttctcc ccagatgaca aataactctsg	180
acaccgaatc accatcaaga	
aacgcttcaa ggtgtcatg acccagcaac cgccgcctgt	240
cctctgaggg tcccttaaac	
tgtatgtctt tctgcaccc tttacccttc ggagactccg	300
taaccaaact ctccggactg	
tgagccctga tgcctttttt ccagccatac tctttggcat	360
ccagtctctc gtggcgattg	
attatgttg ttttggggcaa tcatgtggc atcaccata aaggaaacac	420
atttgactttt ttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst	480
taaaaaaaaaaaaaaaa aaaaaa	496

<210> 185

<211> 384

<212> DNA

<213> Homo sapien

<400> 185

gctggtagcc tatggcgkkg cccacggagg ggctcctgag	60
gccacggrac agtgaacttcc	
caagtatcyt ggcsgcgctc ttctaccgtc cttacctgca	120
gatcttcggg cagattcccc	
aggaggacat ggacgtggcc cttatggagc acagcaactg	180
ytcgctggag cccggcttct	
gggcacaccc ttctggggcc caggcgggca cttgcgtctc	240
ccagtatgcc aactggctgg	
tgggtctgtc cttctgtc ttcctgtcg tggccaacat	300
ctgtctggc aacttgtca	
ttgcctatgtt cagttacaca ttccggaaag tacaggc	360
aa cagcgatctc tactggaaag	
gcgcacgctt accgcctcat ccgg	384

<210> 186

<211> 577

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(577)

<223> n = A,T,C or G

<400> 186

gagtttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc 60

tnccatcgtc atactgtagg tttgccacca cytcctggca tcctgggctg gcntaatatt	120
ccagggaaact ctcaatcaag tcaccgtcga taaaacacctgt gggctggttc tgtctccgc	180
tcgggtgaa agatctccc agaaggagtg ctcgatctt cccacactt tgatgacttt	240
attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac	300
cagccctatac atgccgttga mcgtgccaa garcaccgag ccttgtgtgg gggkkgaagt	360
ctcacccaga ttctgcattt ccagagagcc gtggcaaaag acattgacaa actcgccccag	420
gtggaaaaag amcamctcct ggargtgctn gccgctcctc gtcmgttggt ggcagcgctw	480
tcctttgac acacaaacaa gttaaaggca tttttagccc ccagaaantt gtcatcatcc	540
aagatntcgc acagcactna tccagttggg attaaat	577
<210> 187	
<211> 534	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(534)	
<223> n = A,T,C or G	
<400> 187	
aacatcttcc tgtataatgc tgttaatat cgatccgatn ttgtctgstg agaatycatw	60
actkggaaaa gmaacattaa agcctggaca ctggattaa aattcacaat atgcaacact	120
ttaaacatgt tgtcaatctg ctcccyynac ttgtcatca ccagtctggg akaaggta	180
tgccttattt acacctgtt aaagggcgct aagcattttt gattcaacat cttttttttt	240
gacacaagtc cgaaaaaaagc aaaagtaaac agttaatyat ttgttagcca attcaacttc	300
ttcatggac agagccatyt gataaaaaa gcaaattgca taatattgag ctttygggagc	360
tgatatttga gcggaagagt agccttcta cttcaccaga cacaactccc tttcatattt	420
ggatgttnac naaagtwtatg tctctwacag atggatgct ttgtggcaa ttctgttctg	480
aggatctccc agtttattta ccacttgcac aagaaggcgt tttcttcctc agg	534
<210> 188	
<211> 761	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(761)	
<223> n = A,T,C or G	
<400> 188	
agaaaccagt atctctnaaa acaacctctc ataccttgc gacctaattt tgtgtgcgtg	60
tgtgtgcg cgcatttat atagacaggc acattttt tactttttaa aagctttag	120
cctcttgcgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggac	180
ttgtcttcgt tggaaatgtt actagagaaa aacacatnt tatgatcaa tctagttngt	240
tttattcgtc atgaaggaaa ttccagatn acaacactna caaactctcc ctkgackarg	300
ggggacaaag aaaagcaaaa ctgmcataa raaacaatwa cctggtgaga arttgataa	360
acagaaatwr ggtatgtat tgaarnacag catcattaaa rmgttwktt wttctccctt	420
gcaaaaaaca tggatngact tcccttgcg taatgccaag ttgtttttt tatnataaaa	480
tttgccttc attacatgtt taaaagtgtt gtgggtggcc aaaatattga aatgatggaa	540
ctgactgata aagctgtaca aataagcagt gtgcctaaaca agcaacacag taatgttgc	600
atgcttaatt cacaatgtt aatttcattaa taatgtttt ctaaaataca ctttgaacta	660
ttttctgtt tccccagagc tgagatntt gatttatgt agtatnaagt gaaaantac	720
gaaaataata acattgaaga aaaananaaa aaanaaaaaa a	761

<210> 189
<211> 482

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 189
 tttttttttt tttgcgatn ctactatttt attgcaggan gttgggggtgt atgcaccgca 60
 caccggggct atnagaagca agaaggaagg agggagggca cagccccc ttgagcaaca 120
 aagccgcctg ctgccttc tgcgtc tgggtgcagg cacatgggg aacccccc 180
 aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag 240
 tgataggcac agggcaccgg gtacagaccc ctcggctc tgcgtc gacaggtnga tttcgaccag 300
 gtcattgtgc ctcggccagg cacagcttan atctggaaaaa gacagaatgc tttccccc 360
 aaatttggct ngtcatngaa ngggcanttt tccaanttn gctnggtctt ggtacncttg 420
 gttcggccca gtcenccgtc caaaaantat tcacccnnct ccnaattgtc tgcnngnccc 480
 cc 482

<210> 190
 <211> 471
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(471)
 <223> n = A,T,C or G

<400> 190
 tttttttttt ttttaaaaca gtttttcaca acaaaaattta ttagaagaat agtggtttt 60
 aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgnctcca 120
 aatgtctggt caaatgatac aatggacca ttcaatctta cacatgcacg aaagaacaag 180
 cgcttttgc atacaatgca caaaaaaaaaa aggggggggg gaccacatgg attaaaattt 240
 taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300
 tggaaaattt catgtatgca atccaaacca agaacttnat tggtgatcat gantnctcta 360
 ctacatcnac ttgtatcatt gccaggaacn aaaagtttana ancacncngt acaaaaaanaa 420
 tctgttaattt anttcaacct ccgtacngaa aaatnttnnt tatacactcc c 471

<210> 191
 <211> 402
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(402)
 <223> n = A,T,C or G

<400> 191
 gagggattga aggtctgttc tattgtcggtt ctgttcagcc accaactcta acaagttgt 60
 gtcttcact cactgtctgt aagctttta acccagacwg tatcttcata aatagaacaa 120
 attcttcacc agtcacatct tctaggacct tttggattc agtttgtata agctcttcca 180
 ctcccttgt taagacttca tctggtaaag tcttaagttt tggtagaaagg aattyattg 240
 ctcgttctct aacaatgtcc tctccttggaa gtatggctt gaacaaccca cctaaagtcc 300
 ctttgtcat ccattttaaa tatacttaat aggcattgk tncacttagt taaattctgc 360
 aagagtcatc tgtctgcaaa agttgcgtt gtatatctgc ca 402

<210> 192
<211> 601
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

<400> 192

gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact	60
ggtctacccc acatgggagc agcatgccgt agntatataaa ggtcattccc ttagtcagac	120
atgcyyttt gaytaccgtg tgccaaagtgc tggtgattct yaacacacyt ccatcccggt	180
cttttgtgaa aaaactggca ctktctggaa actagcarga catcaactaac aaattcaccc	240
acgagacact taaaagggtt aacaaagcga ytcttgatt gcttttgtc cctccggcac	300
cagtgtcaa tactaaccgg ctgggttgcc tccatcacat ttgtgatctg tagctctggaa	360
tacatctct gacagtactg aagaacttct tctttgttt caaaagcara tcttggtgcc	420
tgttggatca ggcccatt tcccaagtccy aatgttcaca tggcatattt wacttccac	480
aaaacattgc gatttgagc tcagcaacag caaatcctgt tccggcattt gctgcaagag	540
cctcgatgtt gccggccagc gccaaggcag gcgccgtgag ccccaccaggc agcagaagca	600
g	601

<210> 193
<211> 608
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(608)
<223> n = A,T,C or G

<400> 193

atacagcccc natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtaact	60
ggcccgctg tagcccccacg gacttccac ctgctggaaag cggttgatgc tgactcytt	120
cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tcgtggctt ggtkgacgg	180
tkaagtgcag gaagaggctg accacactcgc ggtccaccaag gatgcccac tgcggggac	240
ctgcagcggaa actcctcgat ggtcatgagc gggaaagcga tgaggcccaag ggcttgc	300
agaaccttcc gcctgttctc tggcgccacc tgcaactgtt gcccgtgaca ctcggcctcg	360
gaccagcggaa caaacggcrt tgaacagcgg cacctcacgg atgcccagtg tgcgcgc	420
caggammgscc accagctgtt ccaggtaat gtcggtaag ccctccggg gtratggcgt	480
ctgcagtgtt ttgtcgatg ttctccaggc acaggctggc cagctgcggt tcatcgaaga	540
gtcgccgctc cgtgagcagc atgaaggcgt tgcggctcg cagttttct tcaggaactc	600
cacgcaat	608

<210> 194
<211> 392
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

<400> 194

gaacggctgg accttgcctc gcatttgct tgctggcagg gaatacctt gcaaggcagyt	60
--	----

ccagtccgag cagccccaga ccgctgccgc	ccgaagctaa gcctgcctct	ggccttcccc	120
tccgcctcaa tgcagaacca	gtatggag cactgtttt	agagttttaaga gtaaacactg	180
tttgattttt cttgggatt	tcctctgtta tatagtttt	cccaatgtta atttccaaac	240
aacaacaaca aaataacatg	tttgcctgtt aagtgtata	aaagtaggtt attctgtatt	300
taaagaaaaat attactgtta	catatactgc ttgcaatttc	tgtattttt gktntstgg	360
aaataaaatat agttattaaa	ggttgtcant cc		392

<210> 195
<211> 502
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

<400> 195

ccsttkgagg ggtkaggkyc	cagtttyccga gtggaaagaaa	caggccagga gaagtgcgtg	60
ccgagctgag gcagatgttc	ccacagtgac ccccagagcc	stggstata gtytctgacc	120
cctcncaagg aaagaccacs	ttctggggac atgggctgga	gggcaggacc tagaggcacc	180
aaggaaaggc cccattccgg	ggstgttccc cgaggaggaa	gggaaggggc tctgtgtgcc	240
ccccasgagg aagaggccct	gagtctgtgg atcagacacc	ccttcacgtg tatccccaca	300
caaatgcaag ctcaccaagg	ttccctctca gtccccttcc	stacaccctg amcgccact	360
gscscacacc caccagagc	acgccacccg ccatgggar	tgtgctcaag gartcgcnng	420
gcarcgtgga catctngtcc	cagaaggggg cagaatctcc	aatagangga ctgarcmstt	480
gctnanaaaaa aaaaanaaaa	aa		502

<210> 196
<211> 665
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(665)
<223> n = A,T,C or G

<400> 196

ggttacttgg tttcattgcc accacttagt	ggatgtcatt tagaaccatt	ttgtctgctc	60
cctctggaaag ctttgcgcag	agcggacttt gtaattgttg	gagaataact gctgaatttt	120
wagctgtttk gagttgatts	gcaccactgc acccacaact	tcaatatgaa aacyawttga	180
actwattttat tatcttgcgt	aaagtataac aatgaaaattt	ttgttcatac tgattttkac	240
aagtatgtg aaaagcaawa	gatatatattt cttttattat	gtttaattat gattgccatt	300
attaatcggc aaaatgtgga	gtgtatgttc ttttcacagt	aatatatgcc ttttgtaact	360
tcacttgggtt attttattgt	aaatgartta caaaattctt	aatttagar aatggtatgt	420
watattttat tcattaaat	ctttcctkgt ttacgtwaat	tttgaaaaaga wtgcattgatt	480
tcttgacaga aatcgatctt	gatgtgtgg aagtgtttt	acccacatcc ctatgagttt	540
ttctttagaat gtataaaaggt	tgtagccat cnaacttcaa	agaaaaaaaaat gaccacatac	600
tttgcataatca ggctgaaatg	tggcatgctn ttcttaattcc	aactttataa actagcaaann	660
aagtg			665

<210> 197
<211> 492
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197

ttttttttt	tttttttgc	aggaaggatt	ccatTTATTG	tggatgcatt	ttcacaata	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagTTTT	acctcgtna	gatnacAGAG	180
aattatagtc	naaccagtaa	acnaggaatt	tactTTTCAA	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaactttaga	ttttcttagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgtccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacGGG	agtcaatgct	acctgggaca	cttgttattt	gttcatnctg	480
ancntggctt	aa					492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198

tttnttttgn	atTCANTCT	gtannaanta	tttTCATTAT	gtttattana	aaaatatnaa	60
tgtntccacn	acaaatcatn	ttacntnagt	aagaggccan	ctacatgt	caacatacac	120
tgagtatatt	ttgaaaagga	caagttaaa	gtanacncat	attGCCGANC	atancacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaactga	gtgagtacc	agaaanaaat	240
natatatgtc	aatcngattt	aagataaaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatggttaa	gaatcgtaa	cttatgttta	catatgtnca	420
ggtaagaat	tgtgttaagt	naanttatgg	agaggtccan	gagaaaaatt	tgatncaa	478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199

agtgacttgt	cctccaaaca	aaccCCTGA	tcaagTTGT	ggcactgaca	atcagaccta	60
tgtctgttcc	tgtcatctat	tcgtactaa	atcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaATCTATT	cctacttga	cgactttga	180
agtgattcag	ttcctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta	240
tgaagccnac	tctgaacacg	ctggTTATCT	nagatgagaa	ncagagaaaat	aaagtcnaga	300
aaatttacct	ggangaaaag	aggCTTNGG	ctggggacca	tcccattgaa	ccttcttta	360
anggacttta	agaanaaaact	accacatgt	tgtngtatcc	tggGCCNgg	ccgtttantg	420
aacntngacn	ncaccctnt	ggaatanant	cttgacngcn	tcctgaactt	gtccctctgc	480
ga						482

<210> 200
 <211> 270

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(270)
 <223> n = A,T,C or G

<400> 200

cgccgcgaag	tgcaactcca	gctggggccg	tgcggacgaa	gattctgcc	gcagttggtc	60
cgactgcgac	gacggcggcg	gcgacagtgc	caggtgcage	gccccgcct	gggtcttgc	120
aaggctgagc	tgacgcccga	gaggctgtgt	cacgtcccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccggt	gaangcggga	ggcctcgggg	agccctcgg	gaagggcggc	240
ccgagagata	cgcaggtgca	ggtggccgccc				270

<210> 201
 <211> 419
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

<400> 201

tttttttttt	tttttggaaatc	tactgcgagc	acagcagggtc	agcaacaagt	ttattttgc	60
gctagcaagg	taacagggtt	ggcatggtt	acatgttca	gtcaacttcc	tttgtcgtgg	120
ttgatttggtt	tgtctttatg	ggggccgggt	gggttaggg	aaancgaagc	anaantaaca	180
tggagtgggt	gcaccctccc	tgtagaacct	ggttacnaaa	gcttggggca	gttcacctgg	240
tctgtgaccg	tcattttctt	gacatcaatg	ttattagaag	tcaggatatac	tttttagagag	300
tccactgtnt	ctggaggggag	attagggttt	cttgccaana	tccaancaa	atccacntga	360
aaaagtttgg	tgatncangt	acngaataacc	ganggcatan	ttctcatant	cggtggcca	419

<210> 202
 <211> 509
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = A,T,C or G

<400> 202

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tggcacttaa	tccattttta	tttcaaaatg	tctacaaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	attnnagcca	aatnccttac	ncaaatnnaa	180
tacncncaaa	aatcaaaaaat	atacnntct	ttcagcaaac	ttngttacat	aaataaaaaa	240
aatatatacg	gctgggtttt	tcaaagtaca	attatctaa	cactgcaaac	atnntnnaa	300
ggaactaaaa	taaaaaaaaaa	cactnccgca	aaggtaaag	ggaacaacaa	attcnnttta	360
caacancnnc	nattataaaa	atcatatctc	aatctttagg	ggaatatata	cttcacacnng	420
ggatcttaac	tttactnca	ctttgtttat	tttttanaaa	ccattgtntt	gggcccaaca	480
caatggnaat	ccnccnncnc	tggactagt				509

<210> 203
 <211> 583
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(583)

<223> n = A,T,C or G

<400> 203

ttttttttttt ttttttttga ccccccttttataaaaaaaca agttaccatt ttatTTTact	60
tacacatatt tattttataaa ttggtattag atattcaaaa ggcagctttt aaaaatcaaac	120
taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcttaaagt	180
gaaaatcttc tctagctttt ttgactgtaa atttttgact cttgtaaaac atccaaattc	240
attttcttg tctttaaaat tatctaattct ttccattttt tccctattcc aagtcaattt	300
gcttccttag cctcatttcc tagctcttat ctactattag taagtggctt tttccttaaa	360
agggaaaaca ggaagagana atggcacaca aaacaaacat ttatattca tatttctacc	420
tacgttaata aaatagcatt ttgtgaagcc agctaaaag aaggcttaga tcctttatg	480
tccatTTtag tcactaaacg atatcnaaag tgccagaatg caaaaagggtt gtgaacattt	540
attcaaaagc taatataaga tatttcacat actcatctt ctg	583

<210> 204

<211> 589

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(589)

<223> n = A,T,C or G

<400> 204

ttttttttttt ttttttnctc ttctttttttt ttganaatga ggatcgagtt	60
tttcacttc tagatagggc atgaagaaaa ctcatcttc cagctttaaa ataacaatca	120
aatctcttat gctatcat attttaagtt aaactaatga gtcactggct tattttctcc	180
tgaaggaaat ctgttcattt ttcttcattca tatagtttata tcaagtacta ccttgcata	240
tgagagggtt ttcttcattca ttacacata tattttccatg tgaattttgtt tcaaaccctt	300
attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag	360
cattacaaaa ctgctcaaat tgtttgtaa gnttattccat tataatttagt tngcaggag	420
ctaataaaaa tcaacatttac ngacnagcaa taataaaaact gaagtaccag ttaaatatcc	480
aaaataatta aaggaacattt tttagcctgg gtataatttag ctaatttact ttacaagcat	540
ttattnagaa tgaatttcaca tgtttattt ccntagccca acacaatgg	589

<210> 205

<211> 545

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(545)

<223> n = A,T,C or G

<400> 205

ttttttttttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat	60
agaaaagtgc ttacattta ataaaagttt gtttctcaaa gtgatcagag gaatttagata	120
tngtcttgcac caccaatattt aatttgagga aaatacacca aaatacatta agtaaaattat	180
ttaagatcat agagcttgc agtggaaaaga taaaatttgc cctcagaaac tctgagcatt	240
aaaaatccac tatttagcaaa taaattacta tggacttctt gctttaattt tttgtatgaat	300
atgggggtgc actggtaaac caacacattt tgaaggatac attacttagt gatagattct	360

tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatcttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaaata	ataatgtta	ctactagtga	540
aacc						545
<210> 206						
<211> 487						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(487)						
<223> n = A,T,C or G						
<400> 206						
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catttattag	ctctgcact	tacatattta	aattaaagaa	acgtnnnat	acaactgttna	120
caatttataa	atgtaaagg	ccattattga	gtanatata	tcctccaa	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttt	attttattag	tagatnatac	240
actgctgca	acgctaattt	tcttctccat	ccccatgtng	atattgtgt	tatgtgtgag	300
ttggtnagaa	tgcatacana	atctnacaat	caacagcaag	atgaagctag	gcntgggott	360
tcggtaaaa	tagactgtgt	ctgtctgaat	caaatgatct	gacctatcct	cggtgtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcncctn	ttgcacttgt	480
ttcaaaa						487
<210> 207						
<211> 332						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(332)						
<223> n = A,T,C or G						
<400> 207						
tgaatggct	aaaagactgc	attttanaa	ctagcaactc	ttatttcttt	cctttaaaaaa	60
tacatagcat	taaatccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttata	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atcttgc	gcagaggagg	taaaaggtat	tgattttca	cagaggaana	acacagcgca	240
gaaatgaagg	gccaggctt	actgagctt	tccactggag	ggctcatggg	tggacatgg	300
aaaagaaggc	gcctaggcc	ctgggagcc	ca			332
<210> 208						
<211> 524						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(524)						
<223> n = A,T,C or G						
<400> 208						
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gttgttgtcc	ggccccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtactgtat	120
tttaaaggac	atggagctt	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180

tcccgctgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaaaatact	240
tttggcagaa tacttnttga aacttgcaga tgataactaa gatccaagat attccccaaa	300
gtaaatagaa gtgggtcata atattaatta cctgttcaca tcagcttcca ttacaagtgc	360
atagagcccat acactgacat caaactaagc ccacttagac tcctcaccac cagtctgtcc	420
tgtcatcaga caggaggctg tcaccttgac caaattctca ccagtcatac atctatccaa	480
aaaccattac ctgatccact tccggtaatg caccaccttg gtga	524
<210> 209	
<211> 159	
<212> DNA	
<213> Homo sapien	
<400> 209	
gggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcattc ttgctccttg	60
tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca	120
caaaggactc tcgacccaaa ctgccccaga ccctctcca	159
<210> 210	
<211> 256	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(256)	
<223> n = A,T,C or G	
<400> 210	
actccctggc agacaaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc	60
actgaatttc tttccacttg gactattaca tgccantga gggactaatg gaaaaacgta	120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat	180
ttgcagggtg naaatgggan ggctggttt ttanatgaac agggacatag gaggtaggca	240
ccagagatct aaatca	256
<210> 211	
<211> 264	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(264)	
<223> n = A,T,C or G	
<400> 211	
acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggagg	60
actggAACAC atacccacat ctttgtctg agggataatt ttctgataaa gtcttgctgt	120
atattcaagc acatatgtt tatattattc agttccatgt ttatagccctaa gttaaggaga	180
ggggagatac attcngaaag aggactgaaa gaaaatactca agtngggaaaa cagaaaaaga	240
aaaaaaggag caaatgagaa gcct	264
<210> 212	
<211> 328	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	

<222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 accccaaaaat ccaatgctga atattggct tcattattcc canattctt gattgtcaaa 60
 ggattaatg ttgtctcagc ttgggactt cagtttaggac ctaaggatgc cagccggcag 120
 gtttatatac gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
 tttaattca ttcccattga cttggatcc ttatcatcag ccagagagat tgaaaattta 240
 cccctacnac tcttactct ctgganaggg ccagtggtgg tagctataag ctggccaca 300
 ttttttttc ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
 taaagcattt ctcactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaaagagtt 180
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatatc tctctnacct 240
 tctcatcggt 250

<210> 214
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 214
 acccagaatc caatgctgaa tatttggctt cattattccc agattcttg attgtcaaag 60
 gattnaatgt tgcactcagct tgggcacttc atttaggacc taaggatgcc agccggcagg 120
 ttatataatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgccagt 180
 tgaatttcat tccccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
 ccctacgact ctttactctc tggagagggc cagttgggtgt agctataagc ttggccacat 300
 ttttttttcc ttatattcctt tgcagagat gcgattcato catatgctan aaaccaacag 360
 agtgcatttt accaaaattcc tataganatt gtgaataaaa ccttacctat agtgcatt 420
 actttgcctc ccctaataata cctc 444

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 215

acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt	60
taaaggcattt ctcactgaag ggatagaagt gactgccagg agggaaagta agccaaggct	120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt	180
ttcaaatattt gcatgaacct gctgataagg catgttgaga aacaaatatac tctctgacct	240
tctcatcggt aagcagaggc tgttaggcaac atggaccata gcgaanaaaaa aacttagtaa	300
tccaaagctgt tttctacact gtaaccaggt ttccaaccaa ggtggaaatc tcctataactt	360
ggtgcc	366

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 216

ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc	60
caagacaggg gcctaaggag ggtctccaca ctgctnnntaa gggctnttnc atttttttat	120
taataaaaaag tnnaaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa	180
atcaaaaattt ccctnaagg tntcaagctat cataataact ntatcctgaa aaagcaacat	240
aatttcttcct tccctccctt	260

<210> 217
<211> 262
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 217

acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgtat	60
tcttccttat aattttctat ttataataagg aaatagcaaa ttgggggtggg gggaatgttag	120
ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacacgact gaaaaatttt	180
atgaataatc tttatgttata tatgtctcta gagtagattt ataatttagcc acttacccta	240
atatcccttca tgcttgtaaa gt	262

<210> 218
<211> 205
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

<400> 218

accaaggtgg tgcattaccc gaantggatc aangacacca tcgtggccaa cccctgagca	60
ccccatcaa ctccctttt tagtaaactt ggaaccttgg aaatgaccag gccaaagactc	120
aggcctcccc agttctactg accttgcctt ttangtnna ngtccagggt tgcgtggaaa	180
anaaaatcagc agacacaggt gtaaa	205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttgc tctcagtaac aataaaataca aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctt ctgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
 aaataaaggcat ttagtgctca gtcctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgc aatatttgc gatattccct tcattttggc ttccatgagg 60
 tcttttgcgc agcctgtggc tctactgttag taagttctg ctgatgagga gccagnatgc 120
 ccccaactac cttccctgac gtcctccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgttgt gcggaggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gtttttcacc tgcctcccaa tcctaaaaag gcccatactgc ataaagtcaa caacagataa 120
 atgtttgtcg aattaaaggaa tggataaaaaa aaattaataa tgaatttttg cataatccaa 180
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggatcttt 240
 taggtgagca tgatttagaga gctttaggt tgctttaca tatatctggc atatttgagt 300
 ctcgtatcaa aacaatagat tggtaaagggt ggtattattt tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223

aaaacaaca	aacaaaaaaa	acaattctc	attcagaaaa	attatcttag	ggactgatat	60
tggtaattat	ggtaattta	atwrtrttkt	ggggcatttc	ottacattgt	cttgacaaga	120
ttaaaaatgtc	tgtgccaaaa	ttttgtattt	tattggaga	cttcttatca	aaagtaatgc	180
tgc当地	aggagta	attagtagtg	ttcccmtcac	ttgtttggag	tgtgttattc	240
taaaagattt	tgatttcctg	gaatgacaat	tatattttaa	cttgggtgg	ggaaaanagtt	300
ataggaccac	agtcttcaact	tctgatactt	gtaaattaat	cttttattgc	acttgttttg	360
accattaagc	tatatgttta	aaa				383

<210> 224
<211> 320
<212> DNA
<213> *Homo sapien*

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<400> 224
ccccctgaagg cttttgttta gaaaatagta cagtacaac caataggaac aacaaaaaga 60
aaaagtttg gacattgttag tagggagtgt gtaccctta ctccccatca aaaaaaaaaat 120
ggatacatgg ttaaaggata raagggcaat attttatcat atgttctaaa agagaaggaa 180
gagaaaaatac tactttctcr aaatggaagc ccttaaaggt gctttgatac tgaaggacac 240
aatgtggcc gtccatcctc ctтарагт gcatgacttg gacacggtaa ctgttcагт 300
ttтарактcm gcattgtgac 320

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<210> 225
<211> 1214
<212> DNA
<213> *Homo sapien*

<400>	225					
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ttctgtctcg	gcgtcttgtt	gcatccgcag	tgggtgctgt	cagccgcaca	ctgttccag	120
aactccata	ccatcggtct	gggcctgcac	agtcttgagg	ccgaccaaga	gccaggagc	180
cagatggtgg	aggccagct	ctccgtacgg	caccaggagt	acaacagacc	cttgctcgct	240
aacgaccta	tgctcatcaa	gttggacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattt	cttccgcagt	ccctaccgcg	gggaactctt	gcctcggtt	tggctgggt	360
ctgtggcga	acggcagaat	gcctaccgt	ctgcagtgcg	tgaacgtgtc	ggtgggttot	420
gaggagggtct	gcagtaagct	ctatgacccg	ctgtaccacc	ccagcatgtt	ctgcggccggc	480
ggagggcaag	accagaagga	ctccgtcaac	ggtgaactctg	ggggggccctt	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaaacctctg	caaattca	gagtggatag	agaaaaaccgt	ccagggccagt	660
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caggaatata	tgttttccagc	ccctccccc	tcagggccag	gagtccaggc	ccccagccccc	780
tcctccctca	aaccaagggt	acagatcccc	agcccccct	ccctcagacc	caggagtcca	840
gaccccccag	ccccctcc	ctcagaccca	ggagtccagc	ccctccccc	tcagacccag	900
gagtccagac	cccccagccc	ctcctccctc	agacccagg	gtccaggccc	ccacccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagaccc	agaggtccag	1020
gtccctcaga	ctcctccctc	agacccagcg	gtccaatgcc	accttagactc	tccctgtaca	1080
cagtggccccc	ttgtggcacg	ttgacccaa	cttaccagg	gtttttcat	tttttgtccc	1140
ttttccctag	atccagaaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226
<211> 119
<212> DNA
<213> *Homo sapien*

<400> 226
acccagtatg tgcaggaga cggaacccc tgtgacagcc cactccacca gggttcccaa 60
agaacctggc ccagtcataa tcattcatcc tgacagtggc aataatcacq ataaccagt 119

<210> 227
<211> 818
<212> DNA
<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
ttttgctac	atatgggtc	cttttcatt	cttgcaaaa	acactgggtt	ttctgagaac	120
acggacggtt	cttagcacaa	tttgtgaaat	ctgtgtarao	ccgggtttt	caggggagat	180
aatttcctc	ctctggagga	aagggttgta	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaaagcca	cgctcggcct	tctctgaaacc	aggatggaaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaaccccccatt	ctaacttctt	actggaaaag	360
agggcctctt	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggcgtt	tccagagaca	480
acctgtgtgc	tgtcttggga	tgcccccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	ttggcttcaa	cactgagttt	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcttgg	tttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggtttcag	cttagatggg	agtctgt			818

<210> 228

<211> 744
<212> DNA
<213> Homo sapien

<400> 228

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tcgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gccccgtcac	atttcaatgg	180
tagaaaaagt	ggcttcgtaa	aatagaagag	cagtcaactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattgggtt	gttttggat	aaaagattta	tgagccaaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agctttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggctt	ccgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgc	ctagtttct	tagctgtcac	gttggcttct	tccaggttgg	480
ccagacggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgacccg	540
ccgtggatgt	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttctttctgt	taatgttctt	ctgtgttgc	agctgtctt	atttcctggg	ctaaggcagca	660
ttgggagatg	tggaccagag	atccactctt	taagaaccag	tggcgaaaaga	cactttcttt	720
cttcaactctg	aagtagctgg	tttgt				744

<210> 229

<211> 300
<212> DNA
<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgc	coctcccttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaataaaaa	gaaagggtggc	agacttgc	aacgccaggc	tgacatgtgc	120
tgcaagggttg	ttgttttttta	attattattt	ttagaaacgt	cacccacagt	ccctgttaat	180
ttgttatgtga	cagccaaactc	tgagaaggtc	ctatccccc	acctgcagag	gatccagtct	240
cactaggctc	ctccctgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301
<212> DNA
<213> Homo sapien

<400> 230
cagcagaaca aatacaaata tgaagagtgc aaagatctca taaaatctat gctgaggaaat 60
gagcgacagt tcaaggagga gaagcttgca gagcagctca agcaagctga ggagctcagg 120
caatataaaag tcctgggttca cactcagggaa cgagagctga cccagtaag ggagaagttg 180
cgggaaaggaa gagatgcctc cctctcattt aatgagcatc tccaggccct cctcaactccg 240
gatgaaccgg acaagtccca gggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300
g 301

<210> 231
<211> 301
<212> DNA
<213> Homo sapien

<400> 231
gcaaggcacgc tggcaaatct ctgtcaggc agctccagag aagccatttag tcatttttagc 60
caggaactcc aagtccacat ccttggcaac tggggacttg cgccaggtag ccttgaggat 120
ggcaacacgg gacttctcat caggaagtgg gatgttagatg agctgtatcaa gacggccagg 180
tctgaggatg gcaggatcaa tgatgtcagg ccgggttggta ccgccaatga tgaacacatt 240
ttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300
c 301

<210> 232
<211> 301
<212> DNA
<213> Homo sapien

<400> 232
atgttgtt tcgtgagaag ttcaaacacca aaactggAAC atagttctcc ttcaagtgtt 60
ggcgacagcg gggcttcctg attctgaaat ataactttgt gtaaaattaac agccacctat 120
agaagagtcc atctgctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180
cgtgtgtac caagtgtctgg tgccagcctg ttacctgttc tcactaaaaa tctggctaat 240
gcttttgtt atcacttctg attctgacaa tcaatcaatc aatggcttag agcactgact 300
g 301

<210> 233
<211> 301
<212> DNA
<213> Homo sapien

<400> 233
atgactgact tcccagtaag gctctctaag gggtaagttag gaggatccac aggatttgag 60
atgctaaggc cccagagatc gtttgcattca acccttttat tttcagaggg gaaaatgggg 120
cctagaagtt acagagcatc tagctgggtgc gctggcaccc ctggcctcac acagactccc 180
gatgtgtgg gactacaggc acacagtac tgaagcaggg cctgttagca attctatgcg 240
tacaaattaa catgagatga gtagagactt tattgagaaaa gcaagagaaaa atccatcaa 300
c 301

<210> 234
<211> 301
<212> DNA
<213> Homo sapien

<400> 234
aggctcttaca catcgagact catccatgat tgatatgaat taaaaatcaa caagcaaaga 60
cattttttc atcatgatgc tttctttgt ttcttctttt cgttttcttc tttttctttt 120
tcaatttcag caacatactt ctcaattttt tcaggattta aaatcttgag ggattgatct 180
cgccctcatga cagcaagttc aatgttttg ccacactgact gaaccacttc cagagtgcc 240
ttgatcacca gcttaatggt cagatcatct gcttcaatgg cttegtcagt atagttcttc 300

t

301

<210> 235		
<211> 283		
<212> DNA		
<213> Homo sapien		
<400> 235		
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<210> 236		
<211> 301		
<212> DNA		
<213> Homo sapien		
<400> 236		
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<210> 237		
<211> 301		
<212> DNA		
<213> Homo sapien		
<400> 237		
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<210> 238		
<211> 301		
<212> DNA		
<213> Homo sapien		
<400> 238		
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<210> 239		
<211> 239		
<212> DNA		
<213> Homo sapien		

<400> 239
ataa~~g~~cagct aggaaattct ttatttagta atgtcctaac ataaaagt~~t~~c acataactgc 60
ttctgtcaaa ccatgatact gagctt~~gt~~g acaaccaga aataactaag agaaggc~~aa~~ 120
cataataacct tagagatcaa gaaacatt~~a~~ cacagtcaa ctgtt~~aaaa~~ atagctcaac 180
attcagccag tgagtaga~~gt~~gt gtaatgcc~~a~~ gcatacacag tatacagg~~t~~ ctcagg~~g~~ 239

<210> 240
<211> 300
<212> DNA
<213> Homo sapien

<400> 240
gg~~t~~ccta~~a~~t~~g~~ a~~g~~cg~~a~~g~~c~~g~~c~~ ttccacattt taacgcagg~~t~~ ttacgg~~t~~gat actgtc~~c~~ttt 60
gg~~g~~atct~~g~~cc~~c~~ etcc~~a~~gt~~g~~ga~~c~~ ac~~c~~ttttaag gaaga~~g~~tg~~g~~ gccc~~a~~g~~c~~ta agttcc~~c~~at~~g~~ 120
gctgg~~g~~tgag ccagat~~g~~act tctgt~~c~~c~~c~~ ggtcactt~~c~~ ttcaat~~g~~gg~~g~~ cgaat~~g~~gg~~g~~ 180
ctgc~~c~~agg~~t~~tt ttaaaat~~c~~ca tgctt~~c~~at~~c~~t tgaagcac~~a~~c ggtcactt~~c~~a cc~~c~~t~~c~~tc~~a~~c~~c~~ 240
gctgtgg~~g~~tg tacttt~~g~~at~~g~~aaaat~~cc~~ca ctttgtt~~gg~~gc ctttct~~g~~aag ctataat~~g~~tc 300

<210> 241
<211> 301
<212> DNA
<213> Homo sapien

<400> 241
gagg~~t~~c~~t~~g~~g~~ gctgagg~~t~~ct ctgg~~g~~ctagg aagagg~~g~~gtt ctgtgg~~g~~ag~~c~~t ggaagg~~c~~caga 60
c~~c~~t~~c~~ttt~~g~~ga g~~g~~aaact~~c~~ca g~~c~~ag~~c~~tat~~g~~t t~~g~~tg~~t~~ct~~c~~t gagg~~g~~at~~g~~c aacaagg~~c~~tg 120
ct~~c~~cc~~c~~cat~~g~~ tatt~~g~~aaaaa ctg~~c~~aaact~~g~~g aact~~c~~act~~g~~g aag~~g~~ga~~g~~tg ctg~~c~~t~~g~~cc~~a~~g 180
t~~g~~tg~~a~~agaac c~~a~~g~~c~~c~~t~~gagg~~g~~ tgac~~g~~agaaac g~~g~~aa~~g~~caaaac aggaac~~a~~g~~c~~c agt~~t~~ttt~~c~~t 240
tc~~c~~cc~~c~~ct~~c~~t g~~t~~cata~~c~~agg~~t~~ ct~~c~~t~~c~~ca~~g~~ cat~~c~~ttt~~g~~t t~~g~~t~~c~~agg~~g~~gc ctaaaagg~~g~~ga 300
g 301

<210> 242
<211> 301
<212> DNA
<213> Homo sapien

<400> 242
ccgagg~~t~~c~~c~~t gggat~~g~~ca~~a~~c caat~~c~~act~~c~~t gttt~~c~~ac~~g~~tg acttttat~~c~~a ccata~~c~~att~~g~~ 60
t~~t~~gtgg~~c~~at~~t~~t cct~~c~~at~~t~~ttc tacat~~t~~tg aat~~c~~aa~~g~~agt gtaaataaaat gtat~~t~~at~~c~~gat 120
g~~t~~c~~t~~ta~~a~~ga atat~~t~~at~~c~~t c~~c~~ttttt~~c~~ac tagaacc~~c~~at tcaaaatata agt~~c~~aagaat 180
cttaat~~t~~at~~c~~a acaaataat~~t~~at~~c~~ caag~~c~~aaact ggaagg~~c~~caga ataact~~c~~cca taat~~t~~tg~~a~~ 240
taat~~t~~gac~~c~~cc~~a~~ aagt~~t~~ttata aat~~c~~aaaag~~c~~ c~~c~~taat~~t~~gata accat~~t~~tt~~a~~ gaatt~~c~~aat~~c~~ 300
a 301

<210> 243
<211> 301
<212> DNA
<213> Homo sapien

<400> 243
aggtaa~~g~~tcc~~c~~ c~~a~~g~~t~~t~~g~~aa~~g~~ ctcaaaag~~a~~at ctgg~~t~~at~~g~~ag~~c~~ catagg~~c~~ta tcgac~~g~~ac~~a~~ 60
gg~~t~~gg~~c~~cc~~a~~a g~~c~~tat~~g~~aa~~at~~ c~~a~~g~~a~~gg~~g~~agg~~t~~ c~~t~~tc~~a~~t~~c~~gg~~g~~ g~~c~~c~~t~~gt~~aaaa~~ actat~~g~~at~~g~~g~~g~~ 120
t~~g~~ac~~t~~g~~c~~ag~~t~~ tg~~c~~gact~~c~~t~~g~~ t~~g~~gg~~c~~ca~~g~~g~~t~~ g~~t~~at~~g~~g~~c~~t~~c~~ t~~c~~tc~~g~~g~~c~~at~~g~~a tgacc~~a~~g~~c~~gt~~t~~ 180
g~~c~~t~~g~~g~~t~~tt~~g~~t~~t~~ c~~c~~ag~~a~~tg~~g~~ca agac~~a~~gt~~g~~ag~~c~~ a~~g~~c~~a~~g~~g~~g~~c~~t g~~c~~cc~~a~~cg~~g~~ga ct~~g~~taac~~cc~~ 240
t~~c~~act~~a~~cc~~g~~c~~t~~ at~~g~~tt~~c~~c~~a~~ga aagg~~a~~ca~~g~~g~~t~~ g~~a~~c~~g~~t~~c~~cc~~a~~c~~c~~ aat~~c~~cc~~a~~t~~t~~~~g~~ c~~t~~tc~~c~~at~~t~~tt~~t~~~~t~~ 300
t 301

<210> 244

<211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggttgc aagaatgaaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcatgcaat cccatggca ggatctgtct gtgcacatgc ctctgttagag agcagcattc 120
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaaagac acatcctaaa 180
 aggtgttgta atggtaaaaa cgtctccctt ctttattgccc ctttcttatt tatgtgaaca 240
 actgtttgtc ttttgttat ctttttaaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagttat taaaatgtt attgaaatatta tccccaaacca atgttagaaaa agaaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tctttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gtttcaaag agcagagatg caattaaata ttgttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300
 g

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgc gtcagattt gttttccat ggtctaaata 120
 agtgccttctt gtgaaaattt aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaaatca caaagtttgc catgctctaa agtgcacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaaac aaggtatgct ttacactacc aatgcagaaaa 300
 c

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcccttg gcagggctca tggatcagag ctc当地actgg agggaaaggc atttcgggta 60
 gccttaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgc ccccccacgct 120
 gtgtccctgtc ttccagggtcg acacacaatc ctc当地ggaa caggatcacc catgcgtgc 180
 ctttgcgtat caaggttggg gcttaatgttgc attaaggggag gcaagttctg gttcccttgc 240
 cttttcaaac catgaatgtca ggctctgtat cc当地cttccctt ccttaactgtat attctaaacta 300
 a

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248
 aggtcccttgg agatgccatt tcagccgaag gactttctw ttccggaaatgta cacccctact 60
 atttaggaaga ttcttagggg taattttct gaggaaggag aactagccaa cttaagaattt 120

acaggaagaa agtggttgg aagacagcca aagaaataaa agcagattaa attgtatcg	180
gtacattcca gcctgttgc aactccataa aaacattca gattttatc ccgaatttag	240
cta atgagac tggat ttttgc agagctaaaa actcagttcc	300
c	301
<210> 249	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 249	
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ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccggcc	120
ccaggagac acagcagtga ctcagagctg gtgcacact gtgcctccct cctcaccggcc	180
catcgtaatg aattat ttttgc aaaattaatt ccacccatctt ttca gatttgc ggatggaaag	240
actgaatctt tgactcagaa ttgtttgc aaaaatgtga tgtgacttcc ttatgtcattt	300
a	301
<210> 250	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 250	
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cataagcaca tcagttactt tctctggctg gaatagtaaa ctaaatgtatg gtacatctac	180
ctaaaagact actatgtggataatacata ctaatgaagt attacatgtat taaaagacta	240
caataaaaacc aaacatgttttataacattaa gaaaaacaat aaagatacat gattggaaacc	300
a	301
<210> 251	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 251	
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ggcagggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacaccc	180
cattggatc aatgaaaagc ttcaagaat ctccaggctc actctcttga aggccccggaa	240
cctctggagg ggggcagtgg aatcccagct ccaggacggta tcctgtcgaa aagatatcct	300
c	301
<210> 252	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 252	
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ttttctcatat tggaaatca aggtgtaaa taaatgtata tcgatgtctt caagaatata	120
tcatttcattt ttcaacttagga acccattcaa aatataagtcc aagaatctt atatcaacaa	180
atataatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt	240
tttataaaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtgaaatc	300
a	301
<210> 253	

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 253
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 tggctctgatt gtttcagac cttaaaatat aaacttgtt cacaagctt aatccatgtg 180
 gatTTTTTTT cttagagaac cacaaaacat aaaaggagca agtcggactg aataccgtt 240
 tccatagtgc ccacaggta ttcctcacat ttctccata ggaaaatgct tttcccaag 300
 g 301

<210> 254
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 254
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 aacttgacca attcccttga agcgggtggg ttaaaccctg taaatggaa caaaatcccc 120
 ccaaatactct tcatacttacc ctggggact cctgactgtt gaatttttg gtggaaacaa 180
 gaaaaaaaaa aagcttttggg ctttcaagg ttgcttaaca ggtactgaaa gactggcctc 240
 acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc 300
 t 301

<210> 255
 <211> 302
 <212> DNA
 <213> Homo sapien

<400> 255
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 attactgaaa tttttttttt ctgaatataa atataaataat gtcaaaagtt tgacttggat 120
 tgggattttt tgagttctt caagcatctc ctaataccct caagggcctg agtagggggg 180
 aggaaaaagg actgggggtt gaatctttt aaaaaacaag agtattttttt gcatggatgtt 240
 aacattatta aaaaacaaga aacaacaaaa aaaaatagaga aaaaaccac cccaaacacac 300
 aa 302

<210> 256
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 256
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 aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatacttat 180
 aggcaaatag ctgtggcaa actggcatta cctggttgt gggatgggg gggcaagtgt 240
 gtggctctc ggcctggta gcaagaacat tcaggtagg cctaagttt tcgtgttagt 300
 t 301

<210> 257
 <211> 301

<212> DNA
 <213> Homo sapien

<400> 257
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttcaactat cccctgaatt 60
 tccccactta ttttgtctt tcactatcg aggcccttaga agaggtctac ctgcctccag 120
 tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180
 gtcacattac tcccttcagt gatttcttg agaagtgccta atccctgaat gccaccaaga 240
 tcttaatctt cacatctta atcttatctc tttgactcct ctttacaccg gagaaggctc 300
 c 301

<210> 258
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 258
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 agggggcccg ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaaagat cttaacactg 180
 atgtctcggt cattgaggct gtcaataana cgctgatccc ctgctgtatg gtgggtcat 240
 tggtgatccc tgggagcgc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac 300
 t 301

<210> 259
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259
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 gtgtctgaa gtgatttggc cccctgaggg cagacaccta agtaggaatc ccagtggaa 120
 gcaaagccat aaggaagccc aggattcctt gtgatcggg agtggccag gaagggtctgt 180
 tccagctcac atctcatctg catgoagcac ggaccggatg cgcccactgg gtcttggctt 240
 ccctccatc ttctcaagca gtgtcttgc tgagccattt gcacccatgg ctccaggtgg 300
 c 301

<210> 260
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 260
 tttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatgg 60
 aagggtctt aacttgaaaa agattaggag tcactggttt acaagttata attgaatgaa 120
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaac caggattaac 180
 tagggcaaaa taaataagtg tgtgaaagcc ctgataagtg cttaaataaac agactgattc 240
 actgagacat cagtagctgc cggggggcc gctcgagccg aattctgcag atatccatca 300

c

301

<210> 261
<211> 301
<212> DNA
<213> Homo sapien

<400> 261

aaatattcga gcaaattctcg taactaatgt gtctccataa aaggctttga actcagtgaa	60
tctgcttcca tccacgattc tagcaatgac ctctcgacca tcaaagctcc tcttaaggtt	120
agcaccaact attccataca attcatcagc agggaaataaa ggctcttcag aaggttcaat	180
ggtgacatcc aatttcttct gataatttag attcctcaca accttccttag ttaagtgaag	240
ggcatgatga tcatccaaag cccagtggtc acttactcca gactttctgc aatgaagatc	300
a	301

<210> 262

<211> 301
<212> DNA
<213> Homo sapien

<400> 262

gaggagagcc tgttacagca ttgttaagca cagaatactc caggagtatt tgtaattgtc	60
tgtgagctc ttgccgcaag tctctcagaa attaaaaaag atgcaaatcc ctgagtcacc	120
cctagacttc ctaaaccaga tcctctgggg ctggAACCTG gcactctgca ttgttaatga	180
gggctttctg gtgcacacct aattttgtgc atctttgccca taaatcctgg attagtgccc	240
catcattacc cccacattat aatggatag attcagagca gatactctcc agcaaagaat	300
c	301

<210> 263

<211> 301
<212> DNA
<213> Homo sapien.

<220>

<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 263

tttagcttgt ggttaatgac tcacaaaact gatTTaaaaa tcaagttaat gtgaattttg	60
aaaattacta ctaatccta attcacaata acaatggcat taaggTTGA cttaggttgg	120
ttcttagtat tatttatgtt aaataggctc ttaccacttg caaataactg gccacatcat	180
taatgactga ctccccatgtt aggctctcta agggtaagt angaggatcc acaggatttg	240
agatgctaag gccccagaga tcgtttgatc caaccctctt atttcagag gggaaaatgg	300
g	301

<210> 264

<211> 301
<212> DNA
<213> Homo sapien

<400> 264

aaagacgtta aaccactcta ctaccacttg tggaactctc aaaggtaaa tgacaaascc	60
aatgaatgac tctaaaaaca atatttacat ttatggTTT gtagacaata aaaaacaag	120
gtggatagat cttagattgtt aacattttaa gaaaaccata scatttgaca gatgagaaag	180
ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac	240
acccttcata taaattcact atcttggctt gaggcactcc ataaaaatgtt tcacgtgcat	300
a	301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265

tgccaagtt atgtgttaat	gtatccgcac ccagaggtaa aactacactg tcacatcttgc	60
cttcttgcga cgcgttattt	cttctctggg gagaaggccgg gaagtcttct cctggctcta	120
catattcttg gaagtctcta atcaactttt gttccatttg tttcatttct tcaggaggaa	180	
ttttcagttt gtcaacatgt tctctaaaca cacttgccca tttctgtaaa gaatccaaag	240	
cagtccaaagg ctttgacatg tcaacaacca gcataactag agtacccctc agagatacgg	300	
c	301	

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266

taccgtctgc ctttcctccc atccaggcca totgcgaatc tacatggtc ctccatttc	60
acaccagatc actctttccat ctaccacag gttgttatg agcaagagac acaacccct	120
ctcttctgtg ttccagcttc tttctctgtt ctccccccctttaatttctt atttctgggg	180
atagagacac caatacccat aacctctctc ctaagcctcc ttataacccca gggtgcacag	240
cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg	300
a	301

<210> 267
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 267

aaagagcaca ggccagctca gcctgccctg gccatctaga ctcagccctgg ctccatgggg	60
gttctcagtg ctgagtccat ccaggaaaag ctcacctaga cttctgtagg ctgaatcttc	120
atccctcacag gcagcttctg agagcctgtt attcttagcc ttgtatggct ggagtaaagc	180
ctcatttcgttgc ttccctctcc tctttctttt caagttggct ttccctcacat ccctctgttc	240
aattcgccttc agcttgcctg ctttagccct catttccaga agcttcttct ctttggcattc	300
t	301

<210> 268
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 268

aatgtctcac tcaactactt cccagctac cggtggctaa ttctgggagt tttcttctta	60
gatcttggga gagctggttc ttcttaaggag aaggaggaag gacagatgtt actttggatc	120
tcgaagagga agtctaatgg aagtaatttgc tcaacggtcc ttgttttagac tcttggaaata	180
tgctgggtgg ctcagtggc cttttggag aaagcaagta ttattcttaa ggagtaacca	240
cttccatttgc ttctactttc taccatcatc aatttgtatat tatgttattct ttggagaact	300
a	301

<210> 269
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 269

taacaatata cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60	
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagttaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattcttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgc	ttttaaaaattaa	ttaagccta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgc	tattgataa	cactattcat	ggccgaattt	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtgggtgc	cgatatactg	cactagataa	240
tggaccaacc	aactaaattt	tctcaccagg	ctgtatcagt	aaactgctt	aacagaaaac	300
a						301

<210> 271

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 271

aaaaggttct	cataagatta	acaattaaa	taaatatgg	atagaacatt	ctttctcatt	60
tttatacgctc	atcttttaggg	ttgatattca	gttcatgctt	cccttgcgt	tcttgatcca	120
gaattgcaat	cacttcatca	gcctgtattc	gtcccaattt	tctataaagt	gggtccaagg	180
tgaaccacag	agccacagca	cacccctttc	ccttggtgac	tgccttcacc	ccatganggt	240
tctctctcc	agatganaac	tgatcatgcg	cccacatttt	gggtttata	gaagcagtca	300
c						301

<210> 272

<211> 301

<212> DNA

<213> Homo sapien

<400> 272

taaatgcta	agccacagat	aacaccaatc	aaatggaaaca	aatcactgtc	ttcaaatgtc	60
ttatcagaaa	accaaatggag	cctggaatct	tcataatacc	taaacatgcc	gtattttagga	120
tccaaataatt	ccctcatgtat	gagcaagaaa	aattctttgc	gcacccctcc	tgcatccaca	180
gcatcttctc	caacaaatat	aaccttgagt	ggcttcttgt	aatctatgtt	cttggtttc	240
ctaaggactt	ccattgcac	tcctacaata	ttttctctac	gcaccactag	aattaaggcag	300
g						301

<210> 273

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttggaaaaan aanaagacat cttgttayt attttttg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyacttaat ctgactyga 120
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatcc 180
 ttytttctgt ccagagagag tatcagtac ananattma gggtaamac atgmattgg 240
 gggactnty tttacngagm accctgcccsg sgccctcg makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274
 cttatatact ctttctcaga ggcaaaagag gagatggta attagacaa ttcttgagg 60
 aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacctgtaaa 120
 tgattctctt tggaaatctga atgagatcaa gaggccagct ttagctgtg gaaaagtcca 180
 tctaggtatg gttgcattct cgtctcttt tctgcagtag ataatgaggt aaccgaaggc 240
 aatttgtcctt cttttgataa gaagcttct tggcatatc aggaaattcc aganaaaagtc 300
 c 301

<210> 275
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 275
 tcgggtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60
 gggtaattt ggccaacttt ctattaactt atgttggcaa ttttgcacc aacagttaagc 120
 tggccctct aaaaaagaaa aattgaaagg ttctcacta aacggaatta agtagtggag 180
 tcaagagact cccaggccctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc 240
 agatatccat cacactggcg gnegctcga catgcataa gaaggnccaa ttgccttat 300
 a 301

<210> 276
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 276
 tgtacacata ctcataataat aaatgactgc attgtggat tattactata ctgattatat 60
 ttatcatgtg acttctaatt agaaaatgtc tccaaaagca aaacagcaga tataaaaaat 120
 taaagagaca gaagatagac attaacagat aaggcaactt atacatttag aatccaaatc 180
 caatacattt aaacatttg gaaatgaggg ggacaaatgg aagccagatc aaatttggt 240

aaaactattc agtatgttc cttgttca tgcgtgagaa ggctccctt caatggggat	300
g	301
<210> 277	
<211> 301	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
<400> 277	
tttgtttagt tcagtatttt attacttgc ttatgagtgc tcacctggga aattctaaag	60
atacagagga ctggaggaa gcagagcaac tgaatttaat taaaagaag gaaaacattt	120
gaatcatggc actcctgata ctttcccaa tcaacactct caatccccca ccctcgctct	180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgcag tgcttctga	240
gttcnctgtc gattacatct gaccagtctc cttttccga agtccntccg ttcaatcttg	300
c	301
<210> 278	
<211> 301	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
<400> 278	
taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaaatggat	60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagccca gggcttgtca	120
cagtcctcac tggttattatg cattacctgg gaatttataat aagcccttaa taataatgcc	180
aatgaacatc tcatgtgtc tcacaatgtt ctggcactat tataagtgtc tcacagggtt	240
tatgtgttct tcgttaacttt atggantagg tactcgcccg cgaacacgct aagccgaatt	300
c	301
<210> 279	
<211> 301	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
<400> 279	
aaagcaggaa tgacaaagct tgctttctg gtatgttcta ggtgttattgt gacttttact	60
gttatattaa ttgccaatat aagtaaatat agattatata tgcgtatgtt ttccacaaagc	120
ttagacctt accttccagc caccccacag tgcttgcata ttccagatca gtcattgggtt	180
atacatgtgt agttccaaag cacataagct agaanaanaa atatgtttag ggagcactac	240
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag	300
a	301
<210> 280	

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaagggtg gtggAACCAA attgtgtca atggAAATAG gagaATATGG ttctcaCT 120
 tgagaaaaaa acctaAGATT agccCAGGTG ttgcCTGTa acttcAGTT ttgcCTGG 180
 gtttGATA tttagggTT ggggttagat taAGATCTAA attACATCAg gacAAAGAGA 240
 cagactatta actccacagt taattaAGGA ggtatGTTCC atgtttattt gttaaAGCAG 300
 t 301

<210> 281
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga agggGAATGG gaaAGAGCTG ctgctgtggc attgttcaac ttggatattc 60
 gCcGAGCAAT ccaaAtCCTG aatGAAGGGG catttctGA aaaAGGAGAT ctGAATCTCA 120
 atgtgttagc aatggCTTA tcgggttata cggtAGAGAA gaACTCCCTT tggAGAGAAA 180
 tgtgtAGCAC actgcgttta cagctaaATA acccgTATTt gtgtgtcatg ttgcatttc 240
 tgacaAGtGA aacaggatct tacgtatGGG tttgtatGA aaacaAGtT gcagtacCtC 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 282
 caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
 tccagaACCC aaaaAttaAG aaattcaAAAG agacattttG tgggcacctG ctacCACAGA 120
 agcgcAGAG aAAAGCCCAG gcagaACCAT gctaACCTTA cagtcAGCC tgcACAGAAAG 180
 cgcAGAGCA aAGCCCAGGC agaACCATGC taacCTTACA gctcAGCCTG cacAGAAGCG 240
 cagaAGCAAA gcccAGGCG aacatGCTAA ccttACAGCT cagcCTGcac agaAGCACAG 300
 a 301

<210> 283
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 283
 atctgtatac ggcAGACAAA ctttAtaRaG ttagAGAGGG tgAGCgAAAG gatGcAAAG 60
 cacttgagg GCTTATAAT aatAtGCTGc ttGAAAAAAA aatGtGtGtG ttGtAtActCa 120
 gtgcAtCTCC agacAtAGTA agggGtGtGtC ctGACCAATC aggtGtAtCat ttttCtAtC 180
 acttcccAGG ttttAtGCAA aatTTtGTT aatTCtATA atGtGtAtAt GcAtCtttTA 240
 gggAAACAtAT acAttttAA aatCtAtTTT tatGtAAGAA ctGACAGAcG aAtttGctt 300
 g 301

<210> 284
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 284
 caggtacAAA acgttAtAA gttggcttAgA atttGAACAt ttGtGgtCtt tatttActtt 60

gcttcgtgtg tggcaaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa	120
gcagattagg ttttgacaa aacaacagg caaaagggg gctgacctgg agcagagcat	180
ggtgagaggc aaggcatgag agggcaagtt tggtgtggac agatctgtc ctactttatt	240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt	300
a	301
<210> 285	
<211> 301	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
<400> 285	
acatcacat gatcgatcc cccacccatt atacgttgta tgtttacata aatactcttc	60
aatgatcatt agtgttttaa aaaaaatact gaaaactcct tctgcattccc aatctctaacc	120
cagggaaagca aatgttattt acagacctgc aagccctccc tcaaacnnaa ctatttctgg	180
attaaatatg tctgacttct ttgaggtca caccacttagg caaatgctat ttacgatctg	240
caaagctgt ttgaagagtc aaagccccca tgtgaacacg atttctggac cctgtaacag	300
t	301
<210> 286	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 286	
taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgt	60
tgttatattat tttgcctta cagtggatca ttcttagtagg aaaggacagt aagatttttt	120
atcaaaatgt gtcatgccag taagagatgt tatattctt tctcatttct tccccaccca	180
aaaataagct accatatagc ttataagtct caaatttttg cttttacta aaatgtgatt	240
gtttctgttc attgtgtatg cttcatcacc tatatttaggc aaattccatt tttcccttg	300
t	301
<210> 287	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 287	
tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg	60
cccagaagga acgttagagat cagatattac aacagctttg ttttgagggt tagaaatatg	120
aatgatttg gttatgaacg cacagtttag gcagcaggc cagaatcctg accctctgcc	180
ccgtggttat ctccctccca gcttggctgc ctcatgttat cacagtattc cattttgttt	240
gttgcattgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttgtaatgc	300
t	301
<210> 288	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 288	
gtacacctaa ctgcaaggac agctgaggaa ttaatgggc agccgctttt aaagaagtag	60
agtcaatagg aagacaaatt ccagttccag ctcagtcgg gatatctgcaa agctgcaaaa	120

gatcttaaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac aaaagcatct gctttgtga tttaattttag ctcatctggc cactggaaga atccaaacag tctgccttaa ttttggatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaaa a	180 240 300 301
 <210> 289	
<211> 301	
<212> DNA	
<213> Homo sapien	
 <220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
 <400> 289	
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tgaaaactta gttttgcgt tctccaagta gtccacccctc attaactct ttgaaactgt atcatcttg ccaagtaaga gtgggtgcctt atttcagctg cttgacaaa atgactggct cctgacttaa cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaaga tgtgtttgt ttggactct ctgtggtccc ttccaatgct gtgggttcc aaccagngga a	60 120 180 240 300 301
 <210> 290	
<211> 301	
<212> DNA	
<213> Homo sapien	
 <220>	
<221> misc_feature	
<222> (1)...(301)	
<223> n = A,T,C or G	
 <400> 290	
acactgagct cttcttgata aatatacaga atgctggca tatacaagat tctatactac tgactgatct gttcatttct ctcacagctc ttaccccaa aagctttcc accctaagtg ttctgacctc cttttctaat cacagtaggg atagaggcag anccacccatc aatgaacatg gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagttag a	60 120 180 240 300 301
 <210> 291	
<211> 301	
<212> DNA	
<213> Homo sapien	
 <400> 291	
caggtaccaa ttctttctat cctagaaaaca ttcttattta tgttgttgaa acataacaac tatattcagct agattttttt tctatgtttt acctgtatg gaaaatttga cacattctgc tttactcttt tgtttatagg tgaatcacaat aatgtatattt tatgtatattt gtagttcaat agccatggct gtttacttca tttaattttt ttagcataaa gacattatga aaaggcctaa acatgagctt cacttccccca ctaactaattt agcatgtttt atttcttaac cgtaatgcct a	60 120 180 240 300 301
 <210> 292	
<211> 301	
<212> DNA	
<213> Homo sapien	

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60
 tgtattaaat aatttttaag tttaaaaagat aaaataccat cattttaaat gtggattc 120
 aaaacccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgtat ttgcnagatg 180
 gaaaaatatacg tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240
 tcactacaca cacagacccc acagtcctat atgccacaaa cacattcca taacttgaaa 300
 a 301

<210> 293
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 293
 ggtaccaagt gctgggtCCA gcctgttacc ttttctcaact gaaaagtctg gctaattgctc 60
 ttgtgttagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt 120
 aacacaaacg tcactagcaa agtagcaaca gcttaagtc taaatacaaa gctgttctgt 180
 gtgagaattt tttaaaaaggc tacttgtata ataacccttg tcattttaa tgtacctcgg 240
 ccgcgaccac gctaaggccg attctgcaga tatccatcac actggcggcc gctcgagcat 300
 g 301

<210> 294
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 294
 tgaccataa caatatacac tagctatctt tttaactgtc catcattagc accaatgaag 60
 attcaataaa attacctta ttcacacatc taaaacaat tctgcaaatt cttagtgaag 120
 tttaactata gtcacaganc ttaaatattc acattgtttt ctatgtctac tgaaaataag 180
 ttcactactt ttctggata ttcttacaa aatcttatta aaattcctgg tattatcacc 240
 cccaattata cagtagcaca accacctt gtatgttta catgatagtct ctgttagaggt 300
 t 301

<210> 295
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 295
 gtacttttc tctccccctcc tctgaattta attcttcaa cttgcaattt gcaaggatta 60
 cacatttcac tggatgtat attgtgttgc aaaaaaaaaa gtgtctttgt taaaattac 120
 ttgggttggat aatccatctt gcttttccc cattggaaact agtcatataac ccatctctga 180
 actggtagaa aaacrtctga agagctagtc tatcagcatc tgacaggtga attggatgg 240
 ttcagaacc atttcacccca gacagcctgt ttctatcttg ttaataaat tagttgggt 300
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<210> 296
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 296

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aggtaactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tggcttatct      60
cacctagtag taaaactaaaa ataaaactgaa acctttatgga atctgaagtt atttccttg      120
attaaataga attaataaaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac      180
tttggaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt      240
tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg      300
c
  
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<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297

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actgagttt aactggacgc caagcaggca aggctggaag gttttgtct ctttgtcta      60
aaggtttgaa aaaccttcaa ggagaatcat ttgacaaga agtacttaag agtctagaga      120
acaaagangt gaaccagctg aaagctctcg gggaaanctt acatgtgtt ttaggcctgt      180
tccatcattt ggagtgcact ggcacccct caaaatttgc ctgggctggc ctgagtggc      240
accgcacccgc ggcgcgacc acgctaagcc gaattctgc gatatccatc acactggcg      300
  
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<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298

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tatgggtttt gtcacccaaa agctgatgtc gagaaaggcc tccctggggc ccctcccgcg      60
ggcattctgag agacctgggt ttccactgtt tctggaaatg ggtcccagtg cccggggctg      120
tgaagcttc agatcaatca cggaaaggcc ctggcggtgg tggccacctg gaaccacccct      180
gtcctgtctg ttacatttc actaycaggt ttctctggg cattacnatt tgcccccta      240
caacagtgc acgtgcattt tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg      300
t
  
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<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299

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gttttggagac gggtttcac tcttggcc cagactggac tgcaatggca gggctctgc      60
tcactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcccccaggtgc      120
tgggatttgc ggttcacgcc accataccca gctaatttt ttgtattttt agtagagacg      180
gagtttcgccc atgttggcca gctggctca aactcctgac ctcaagcgac ctgcctgcct      240
  
```

cggcctccca aagtgctgga attataggca tgagtcaaca cgcccagcct aaagatattt t	300 301
<210> 300	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 300	
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<210> 301	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 301	
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<210> 302	
<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 302	
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<211> 301	
<212> DNA	
<213> Homo sapien	
<400> 303	
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<210> 304	
<211> 301	
<212> DNA	

<213> Homo sapien

<400> 304

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tattagtttc agtttcagct tacccacttt ttgtctgcaa catgcaraas agacagtgc	120
cttttttagt tatcatatca ggaatcatct cacattgggt tgtgccatta ctgggcagt	180
gactttcagc cacttgggtt aggtggagtt ggccatatgt ctccactgca aaattactga	240
ttttcccttt gtaattaata agtgtgtgt tgaagattct ttgagatgag gtatatatct	300
c	301

<210> 305

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 305

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cagggggaca gacctggaca gacacgtgt catttgcgc tggtggtagg aaaatggcg	120
taaaggagga gaaacagata caaaatctcc aactcgttat taaggtattc tcattgcctag	180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaaacaaaa	240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atgaaataag	300
a	301

<210> 306

<211> 8

<212> PRT

<213> Homo sapien

<400> 306

Val Leu Gly Trp Val Ala Glu Leu

1

5

<210> 307

<211> 637

<212> DNA

<213> Homo sapien

<400> 307

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ttgtgatcg gtggctatcg gggcttatcc ctacaaagaa gaatccagaa atagggcac	120
attgaggaat gatacttgcg cccaaagagc attcaatcat tgttttatgc gccttmttt	180
cacaccattt gtggggagg gattaccacc ctggggttt gaagatgggtt gaacacccca	240
cacatagcac cggagatag agatcaacag ttcttagcc atagagattc acagcccaga	300
gcaggaggac gcttgcacac catgcaggat gacatgggg atgcgctcg gattgggttg	360
aagaagcaag gactgtttaga ggcaggctt atagtaacaa gacgggtgggg caaactctga	420
tttccgtgg ggaatgtcat ggtcttgcgt tactaagtt tgagactggc aggttagtgaa	480
actcattagg ctgagaacct tggaaatgc acttgaccct sctgatagag gaagtagcca	540
ggtgggagcc ttcccagtg ggtgtgggac atatctggca agatttgtg gcactcctgg	600
ttacagatac tggggcagca aataaaactg aatcttg	637

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

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tgctcagggg aagggtcata tgggactt tcactgccc ggttctatac aggtataaaa	120
ggngcctcac agtataagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg	180
ccacccctct gacccttgg aactcctctg accctttaga acaaggctac ctaatatctg	240
ctagagaaaa gaccaacaac ggcctcaaag gatctcttac catgaaggc tcagctaatt	300
cttggctaaatg atgtgggtc cacattaggt tctgaatatg gggggaaaggg tcaatttgct	360
cattttgtgt gtggataaaag tcaggatgcc caggggcccag agcagggggc tgcttgcttt	420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaaacaaca tcaaagtac	480
tgtatcaatt gccatgaaga cttaggggac ctgaatctac cgattcatct taaggcagca	540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat gggaaacaaca gaatgattgc	600
aatgtccctt ttttctct gcttctgact tgataaaagg ggaccgt	647

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt tttaggctgga cattggaaaa aaaaaaaaaagc cagaacaaca tgtgatagat	60
aatatgattt gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg	120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc	180
accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtccg	240
ggggaaattta ttccctggcaa ttttaattgg actcctttagt tgagagcagc ggctacccag	300
ctgggggtgtt ggagcgaacc cgtcactagt ggacatgca gggcagagct cctggtaacc	360
acctagagga atacacagggc acatgtgtga tgccaagcgt gacacctgta gcactcaat	420
ttgtcttggtt tttgtcttcc ggtgtgtaag attcttaagt	460

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

acgggactta tcaaataaaag atagggaaaag aagaaaaactc aaatattata ggcagaaaatg	60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaaagaaac aaagttcagt	120
tagggaaagag aaacacagaaa ggaagagaca caataaaaagt cattatgtat tctgtgagaa	180
gtcagacagt aagatttgtg ggaaatgggt tggtttggat tatggatgt atttttagcaa	240
taatcttat ggcagagaaa gctaaaatcc ttttagcttgc gtgaatgatc acttgctgaa	300
ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac	360
ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc acactgtgac	420
atgattatgt cattacatgt atggtagtga tggggatgat aggaagaaag aacttatggc	480
atattttcac cccccacaaaaa gtcagttaaa tattggaca ctaaccatcc aggtcaaga	539

<210> 311

<211> 526

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(526)

<223> n = A,T,C or G

<400> 311

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ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt	atattatcta	120
cattacagc atttaaaaatg tgttcagcat gaaatattag ctacaggaa	agctaaataa	180
attaaacatg gaataaaagat ttgtccttaa atataatcta caagaagact	ttgatatttg	240
tttttcacaa gtgaaggatt cttataaagt gtcataacct ttttgggaa	actatggaa	300
aaaatgggaa aactctgaag ggtttaagt atcttacctg aagctacaga	ctccataacc	360
tctcttaca gggagctcgc agcccccta cagaaatgag tggctgagat	tcttgcattgc	420
acagcaagag cttctcatct aaacccttcc ctttttagt atctgttat	caagtataaa	480
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<210> 312

<211> 500

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(500)

<223> n = A,T,C or G

<400> 312

cctctctctc cccacccct gactcttagag aactgggttt tctcccagta	ctccagcaat	60
tcatttctga aagcagtta gccactttat tccaaagtac actgcagatg	ttcaaaactct	120
ccatttctct ttcccttcca cctgcccagg ttgctgactc tcaacttg	tc atgagtgtaa	180
gcattaagga cattatgtt cttcgattct gaagacaggg cctgctcatg	gatgactctg	240
gcttcttagg aaaatatttt tcttccaaaa tcagtaggaa atctaaactt	atccccttctt	300
tgcagatgtc tagcagttc agacatttg ttaagaaccc atggaaaaaa	aaaaaaatcct	360
tgctaatgtg gtttcctttaaaccanga ttcttatttg nctggatag	aatatcagct	420
ctgaacgtgt ggtaaagatt ttttgtttt aatataggag aaatcagttt	gctgaaaaagt	480
tagtcttaat tatctattgg		500

<210> 313

<211> 718

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(718)

<223> n = A,T,C or G

<400> 313

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tgtatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga	ggccacacat	120
ctgctgaaat ggagataatt aacatcaacta gaaacagcaa gatgacaata	taatgtctaa	180
gtatgtacat gttttgcac atttccagcc cttttaaata tccacacaca	caggaagcac	240
aaaaggaagc acagagatcc ctgggagaaa tgcccgcccg ccacatcttgg	tcatcgatga	300
gcctcgccct gtgcctgntc ccgcgtgtga gggaaaggaca tttagaaaaat	g aattgtatgt	360
ttcccttaaag gatggcaggaa aaacagatcc ttttgtggat atttatttga	acgggattac	420
agattgaaa tgaagtccaca aagtggatcat taccatgag aggaaaaacag	acgagaaaaat	480
cttgcattgtt cacaagacat gcaacaaaca aaatgaaata ctgtgtatgc	acgagcagcc	540
aactggggag gagataccac ggggcaggagg tcaggattct gcccctgctg	ccttaactgtg	600
cgttatccca atcatttcta ttcttaccc caaacaagct gtngaataatc	tgacttacgg	660
ttcttntggc ccacattttc atnattccacc ccntcnttt aannttanc	caaantgt	718

<210> 314	
<211> 358	
<212> DNA	
<213> Homo sapien	
<400> 314	
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gctctcggtt gtcagccac tgtgaaacat gctccctta gattaacctc gtggacgctc	240
ttgttgtattt gctaactgt agtgcctgtt atttgcctt tgcgtgtt gaa ttctgttgc	300
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<210> 315	
<211> 341	
<212> DNA	
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<400> 315	
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gaggggccgg tagatgcagc acatggtgaa gcagatgtat t	341
<210> 316	
<211> 151	
<212> DNA	
<213> Homo sapien	
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<213> Homo sapien	
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<210> 318	
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<213> Homo sapien	
<400> 318	
actgggtggga ggccgtgttt agtggctgtt tttcagaggg gtccttcggaa gggacactcct	60
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tggggccgtt ttatcaggca gtgataaaca t	151
<210> 319	

<211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtgga tccagagcta taggtacagt gtgatctcg ctttcaaacc acatttctta 60
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 taagattggg tttatgtat tttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtgga tccactagtc cagtgtggtg gaattccatt gtgttgggt tctagatcgc 60
 gagcggctgc cttttttttt ttttttttg gggggaaatt tttttttttt aatagttatt 120
 gagtgttcta cagttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
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 tagggggca ttgttaaccag ctatgcata ggtgttaacc aaaggcttag taaacatggg 120
 tgcctcttagt aaatcaaagt cttcatacac t 151

<210> 322
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 322
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 tttggggcttg gtcagttgc cacagggctt ggagatggtg acagtcttct ggcattcggc 120
 attgtgcagg gtcgcttca nacttccagt t 151

<210> 323
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 323
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 nagactcant tactacccaaat tttgtggttt twtggggagaa atgttaactgg acagtttagct 120
 gttcaatyaa aaagacactt ancccatgtg g 151

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<210> 324
<211> 461
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 324
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agaagtggc agctaaagga atccagggtt gttttggac tgtaataacc ttgtatgaaa 120
agagttacta cgaatcccat ctgggttcca gcttatcac tgacagcatg gttagaagact 180
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cacacaatg caatagttgg tcaactgcatt tttacctgaa ccaaagctaa acccggttt 360
gccaccatgc accatggcat gccagagttc aacactgtt ctcttgaaaa ttgggtctga 420
aaaaacgcac aagagccctt gcctgcct agctgangca c 461

<210> 325
<211> 400
<212> DNA
<213> Homo sapien

<400> 325
acactgtttc catgttatgt ttctacacat tgctaccta gtgctcctgg aaacttagct 60
tttgcgtctt ccaagtagtc cacccattt taactctttt aaactgtatc atcttgcct 120
agtaagagtg gtggccattt tcagctgtt tgacaaaatg actggctcct gacttaacgt 180
tctataaatg aatgtgtga agcaaaatg ccatgggtgc ggcgaagaag agaaagatgt 240
gttttgggggg ggactctctg tggcccttc caatgtgtg gtttccaaac caggggaagg 300
gtcccttttgc cattgccaag tgccataacc atgagcacta cgctaccatg gttctgcctc 360
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<210> 326
<211> 1215
<212> DNA
<213> Homo sapien

<400> 326
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gaactccctac accatcgggc tggccctgca cagtttgcgtt gcccaccaag agccaggag 180
ccagatgtt gaggccagcc tctccgtacg gcacccagag tacaacagac cttgtctgc 240
taacgaccc atgctcatca agttggacga atccgtgtcc gagtctgaca ccatccggag 300
catcagcatt gcttcgcgtt gcccattccgc gggaaactct tgcctcggtt ctggctgggg 360
tctgtgtgcg aacggcagaa tgcctaccgt gctgcgttgc gtgaacgtgt cgggtgggtc 420
tgaggagtc tgcagtaagc tctatgaccc gctgtaccac cccagcatgt tctgtgcgg 480
cgaggaggca gaccagaagg actccgtca cgggtactct gggggggccccc tgatctgca 540
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aggtgtctac accaacctt gcaatttgcac tgatgttgc gggaaaaccg tccaggccag 660
ttaactctgg ggactggaa cccatgaaat tgaccccccatacatctt cggaaaggaat 720
tcaggaatat ctgttcccttgc cccctcccttgc ctcaggccca ggagttccagg cccccagccc 780
ctcctcccttgc aaccaaggg tacagatccc cagcccttgc tccctcgac ccagggttcc 840
agaccccccac gcccctcccttgc ctcagaccc aggttccag cccctcccttgc ttcagacccca 900
ggagtccaga ccccccaccc ctcctcccttgc cagacccagg gttccaggcc cccaaacccct 960
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ctttcccta	gatccagaaa	taaagtctaa	gagaagcgca	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaaa					1215

<210> 327
<211> 220
<212> PRT
<213> Homo sapien

<400> 327

Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	
1							5			10					15	
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Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	
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Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	
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Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	
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Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	
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Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	
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Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu	Val	Cys	
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Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	
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Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	
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<211> 234
<212> DNA
<213> Homo sapien

<400> 328

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atccgcagt	gggtgctgtca	gccacacact	gtttccagaa	ctcctacacc	atcgggctgg	180
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<211> 77
<212> PRT
<213> Homo sapien

<400> 329

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Phe Cys Ser Gly Val Leu Val His	Pro Gln Trp Val Leu Ser Ala	Thr	
35	40	45	
His Cys Phe Gln Asn Ser Tyr Thr Ile	Gly Leu Gly Leu His Ser Leu		
50	55	60	
Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala			
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<210> 330

<211> 70

<212> DNA

<213> Homo sapien

<400> 330

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<210> 331

<211> 22

<212> PRT

<213> Homo sapien

<400> 331

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<210> 332

<211> 2507

<212> DNA

<213> Homo sapien

<400> 332

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 <211> 3030
 <212> DNA
 <213> Homo sapien

<400> 333						
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<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<210> 335

<211> 2984

<212> DNA

<213> Homo sapien

<400> 335

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caccccccacc	aaactttatt	tttctatgt	tttttgcaa	catatgagtg	ttttgaaaat	2940
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<210> 336

<211> 147

<212> PRT

<213> Homo sapien

<400> 336

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Leu	Asp	Ser	Glu	Asn	Thr	Ser	Gly	Ala	Leu	Pro	Arg	Leu	Pro	Gln	Thr
					20				25						30
Pro	Lys	Gln	Pro	Gln	Lys	Arg	Ser	Arg	Ala	Ala	Phe	Ser	His	Thr	Gln
					35			40							45
Val	Ile	Glu	Leu	Glu	Arg	Lys	Phe	Ser	His	Gln	Lys	Tyr	Leu	Ser	Ala
					50			55			60				
Pro	Glu	Arg	Ala	His	Leu	Ala	Lys	Asn	Leu	Lys	Leu	Thr	Glu	Thr	Gln
					65			70		75					80
Val	Lys	Ile	Trp	Phe	Gln	Asn	Arg	Arg	Tyr	Lys	Thr	Lys	Arg	Lys	Gln
					85			90				95			
Leu	Ser	Ser	Glu	Leu	Gly	Asp	Leu	Glu	Lys	His	Ser	Ser	Leu	Pro	Ala
					100			105				110			
Leu	Lys	Glu	Glu	Ala	Phe	Ser	Arg	Ala	Ser	Leu	Val	Ser	Val	Tyr	Asn
					115			120				125			
Ser	Tyr	Pro	Tyr	Tyr	Pro	Tyr	Leu	Tyr	Cys	Val	Gly	Ser	Trp	Ser	Pro
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Ala	Phe	Trp													
		145													

<210> 337

<211> 9

<212> PRT

<213> Homo sapien

<400> 337

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala
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<210> 338

<211> 9

<212> PRT

<213> Homo sapien

<400> 338

Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
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<210> 339

<211> 318

<212> PRT

<213> Homo sapien

<400> 339

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 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Thr Gly
 35 40 45
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50 55 60
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65 70 75 80
 Val Ala Lys Glu Ile Gln Thr Thr Gly Asn Gln Gln Val Leu Val
 85 90 95
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115 120 125
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130 135 140
 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145 150 155 160
 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210 215 220
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245 250 255
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
 275 280 285
 Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
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 Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
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<210> 340

<211> 483

<212> DNA

<213> Homo sapien

<400> 340

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gctccaaacg tgacatcaact gatgttttc tcgggggtgc tgatggcccg cttggtcacg	360
tgctcaatct cgccattcga ctcttgccttcc aaaaatgtatc aagacacactg actgcacgtt	420

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ctg	483
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gctgcottac aagtattaaa tatttactt ctccataa agatgtctc aaaatatgca	180
attaatttaa taatttctga tgatggttt atctgcagta atatgtatat catctattag	240
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<212> DNA	
<213> Homo sapien	
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cctggcaggt aaaccaatgc caagagatg atggaaacca ttggcaagac ttgttgatg	180
accaggattg gaattttata aaaatattgt tgatggaaag ttgctaaagg gtgaattact	240
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cccggtgtcct tatgcaaata atcgcttct tctaaatttc tccttaggtt cattttccaa	480
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agtctttcag agaaatggat gcaatcagag tggatccc gtcacatcaa ggtcacactc	240
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<213> Homo sapien	
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<211> 282	
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agggagacta tacctggctc ttgccttaag ttagaggctc tccctccgc accaaaaaat	180
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<400> 347	
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tctgagactg actggaccca cccagaccca gggcaaagat acatgttacc atatcattt	180
tataaagaat ttttttttgt c	201
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<211> 251	
<212> DNA	
<213> Homo sapien	
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agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgcccctg ggcaggcaga	120

aggagacact cccagcatgg aggagggttt atctttcat cctaggtagtgc gttacaatg	180
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<210> 349
<211> 251
<212> DNA
<213> Homo sapien

<400> 349	
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cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcatg cattccactt	180
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<212> DNA
<213> Homo sapien

<400> 350	
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<212> DNA
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tcagccccctt tttggctgtt ttgtttgtc aaaaacctaa tctgtttctt gctttctt	420
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<210> 352
<211> 251
<212> DNA
<213> Homo sapien

<400> 352
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caggctgcgt tccgtcctt ccatgaagac cacatgcag ttccaaaca ttgcactac
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<210> 353
<211> 436
<212> DNA
<213> Homo sapien

<400> 353
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gtatccaaaa gcaaaacacgc agatatacaa aattaaagag acagaagata gacattaaca
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<211> 854
<212> DNA
<213> Homo sapien

<400> 354
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<211> 676
<212> DNA
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<400> 355
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<213> Homo sapien

<400> 359

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<210> 360

<211> 431

<212> DNA

<213> Homo sapien

<400> 360

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<210> 361

<211> 351

<212> DNA

<213> Homo sapien

<400> 361

acactgattt	ccgatcaaaa	gaatcatcat	ctttacctt	acttttcagg	gaattactgt	60
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ttgggtctct	tggctctttt	ccaaggttcc	cagccactcg	agggagaaat	atcggggaggt	180
ttgacttctt	ccggggcttt	cccggggct	tcaccgttgc	ccctgcggcc	ctcagggtctg	240
caatccttgg	tcaatgtct	gaaacctcg	tctctgcctt	ctggacttct	gaggccgtca	300
ctggactct	gtccctccagc	tctgacagct	cctcatctgt	ggtcctgttgc	t	351

<210> 362

<211> 463

<212> DNA

<213> Homo sapien

<400> 362

acttcatcag	gccataatgg	gtgcctcccg	tgagaatcca	agcaccttt	gactgcgcga	60
tgttagatgag	ccggctgaag	atcttgcgc	tgcgcggctt	cagggcgaag	ttcttggcgc	120
ccccggtcac	agaaaatgacc	aggtgggt	tttcaggttgc	ccagtgttgc	gtcagcagct	180
cgttaaggat	ttccgcgttcc	gtgtgcagg	acagacgtat	atacttccct	ttcttccccca	240
gtgtctcaaa	ctgaatatcc	ccaaaggcgt	cgttagggaa	ttccttgggt	tgttttttgc	300
agttccattt	ctcactttgg	ttgatctgg	tgccttccat	gtgctgc	tggcatagc	360
cacacttgca	cacattctcc	ctgataagca	cgtgtgttgc	gacaggaagg	aaggatttca	420
ttgagcctgc	ttatggaaac	ttgttattgtt	agcttaaata	gac		463

<210> 363
<211> 653
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

<400> 363

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tgggaggcac	tacgcaagat	gggactgcgt	cctggggta	gacatccctc	ccttggagat	180
ctaaca	tttcaccta	tgagttgtaa	agcagaaaata	cctgnactac	agacgagtgc	240
ccaaac	ccccccggaa	gtatgagttc	ctctrgggc	tccgttctta	ccatgagasc	300
tagcaagatg	naagtgttga	gantcattgc	agaggttcag	aaaagagagacc	cntcgtgact	360
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ntggccctg	gagctggat	gacattgagt	tttagctgt	gacctggat	gaggaaggag	540
atttggaga	tcctngtcc	agaattccat	ttaccttctg	ggccagatac	caccagaatg	600
cccgctccag	attccctcag	acctttgccg	gtcccattat	tggcstgg	ggt	653

<210> 364
<211> 401
<212> DNA
<213> Homo sapien

<400> 364

actagaggaa	agacgttaaa	ccactctact	accacttgg	gaactctcaa	aggtaaatg	60
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aaaacaaggt	ggatagatct	agaattgtaa	cattttaa	aaaccatagc	atttgacaga	180
tgagaaagct	caattataga	tgcaaagtta	taactaaaact	actataatgt	taaagaaaata	240
catttcacac	ccttcata	aatttactat	cttggcttgc	ggcactccat	aaaatgtatc	300
acgtcatag	taaatcttta	tatttgc	ttgcgttgc	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaaaatg	aaatcttctt	caatagccca	g		401

<210> 365
<211> 356
<212> DNA
<213> Homo sapien

<400> 365

ccagtgtcat	atttgggctt	aaaatttcaa	gaagggcact	tcaaattgg	ttgcatttgc	60
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taccagagca	tcaagtctct	gcagcagg	tttgc	aaagaatga	cttccacaaa	180
ctctccatcc	cctggctttt	gtttccgc	tgcgttttgc	gcatcatctc	cgttaatgtt	240
gactgtcacg	atgtgtatag	tacagg	tttgc	caagcctgg	tccat	300
acattcggca	atgtccctt	tgttagcc	tttgc	ccgttggaga	gagcag	356

<210> 366
<211> 1851
<212> DNA
<213> Homo sapien

<400> 366

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tttcgtgtt	tttcatttctt	tttcaatagc	cataaaatctt	ctagctctgg	ctggctgttt		120

tcacttcctt taagcctttg tgactcttcc tctgatgtca gcttaagtc ttgttctgga	180
ttgcgtttt cagaagagat ttttaacatc tgttttctt tgttagtcaga aagtaactgg	240
caaattacat gatgatgact agaaacagca tactctctgg ccgtcttcc agatcttgag	300
aagatacatc aacattttgc tcaagttagag ggctgactat acttgctgat ccacaacata	360
cagcaagttt gagagcagg tttccatatac tatccagcgc atttaaattt gctttttct	420
tgattaaaaa ttccaccact tgctgtttt gctcatgtat accaagtagc agtgggtgtga	480
ggccatgctt gtttttgtat tcgatatacg caccgtataa gagcagtgtt ttggccatta	540
atttatcttc atttagaca gcatagtgtt gagtggattt tccatactca tcttggatat	600
ttggatcagt gccatgttcc agcaacattt acgcacattt atcttcctgg cattgtacgg	660
ccttgcag agctgtccctt tttttgtt caaggacattt aagttgacat cgctgtcca	720
gcacaggtt tactacttctt gaattccat tggcagagggc cagatgtaga gcagtccctt	780
tttgcgttgc cctttgttc acatccgtt ccctgagcat gacgatgaga tcctttctgg	840
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acctgggatc catgaaggcg ctgtcatcg agtctccca agcgaccacg ttgtcttgc	960
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gtccatccag ggaggaagaa atgcaggaaa taaaagatgc atgcacatg gtatactctt	1140
cagccatcaa acttctggac agcaggtcac ttccagcaag gtggagaaag ctgtccaccc	1200
acagaggatg agatccagaa accacaatat ccattcacaa acaaacactt ttcaagccaga	1260
cacaggtact gaaatcatgt catctgcggc aacatggtg aacctaccca atcacacatc	1320
aagagatgaa gacactgcag tatatctgca caacgtataa ctcttcatcc ataacaaaat	1380
aatataattt tcctctggag ccataatggat gaaactatgaa ggaagaactc cccgaagaag	1440
ccagtcgcag agaagccaca ctgaagctct gtcctcagcc atcagcgcga cggacaggar	1500
tgtgtttctt ccccagtat gcagctcaa gttatcccga agctgcccga gcacacgggt	1560
gctctgaga aacaccccgat ctcttcgggtaa ctaacacagg caagtcaata aatgtgataa	1620
tcacataaac agaattaaaaa gcaaagtca ataaagcatct caacagacac agaaaaggca	1680
tttgacaaaa tccagcatcc ttgtattttt ttttgcgtt ctcagaggaa atgtttctaa	1740
ctttcccca ttttagtatta ttgtgcgtt gggcttgcata taggtgtttt ttattacttt	1800
aaggatgtc cttctatgc ctgttttgc gagggtttta attctcgatc c	1851

<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

cttgagcttc caaataygga agactggccc ttacacasgt caatgttaaa atgaatgcac	60
ttcagtttt tgaagataaa attrgttagat ctataccctt ttttttgcgtt cgatatcagc	120
accrataag agcagtgctt tggcattaa ttatctttc attrtagaca gcrttagtgya	180
gagtgggtt tccatactca tctggatattt ttggatcgtt gccatgttcc agcaacattt	240
acgcacattt atcttcctgg cattgtacgg cctgtcagta tttagacccaa aaacaaat	300
catatcttagt gaaattttttttaa cttccaa cagctttcac caactgttta tattttaaagg	360
agaaaactca tttttatgcc atgtattgaa atcaaaacccca cctcatgttgc atatagttgg	420
ctactgcata cttttatcgat agctgtccctt tttttgttgcgtt caaggacattt aatgtgacat	480
cgctgttccca gcaaggatgtt tactacttgcgtt gaaattccat tggcagagggc cagatgtaga	540
gcagtccttat gagagtggaa agacttttta gggaaattgtt gtgcacttgc tacagccata	600
gcaatgatttca atgttaactgc aaacactgaa tagcctgtca ttactctgtcc ttcaaaaaaaa	660
aaaaaaaaa	668

<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

gggtcgccca gggggsgcggtt gggctttctt cgggtgggtt tgggtttcc ctgggtgggg	60
tgggtctgggc trgaatcccc tggctgggtt ggcagggtttt ggctgggtt gacttttgc	120
ttcaaacaga ttggaaaccc gggatgttacct gctgttgcgtt gaaactgttgcgtt ggttagacgcg	180

atctgttggc tactactggc ttctcctggc tttaaaagc agatgggtt tgagggtt	240
tccatgccgg ctgcttc tttttttttt gatggggcaag	300
tggtgc tttttttttt ccattttggc tcaggagcaag gatggggcaag	360
ggagaccacg acgactctgc tatgaagaca ctcaggagca agatggggcaag gtggtgc	420
cactgcttcc cttgtcgag gggggatggc aagagcaacg tggcgttcc tggagaccac	480
gacgatctg ctatgaagac actcaaggaa aagatggggca agtgggtgt ccactgcttcc	540
ccctgctgca gggggagcrca caagagcaag gtggcgttcc gggggagacta cgatgacagt	600
gccttcatgg agccccggta ccacgtccgt ggagaagatc tggacaagct ccacagagct	660
gcctgggtgg gtaaaagtccc cagaaggat ctatcgta tggcgttcc aactgacgt	720
aacaagaagg acaagcaaaa gaggactgt ctatcatctgg cctctggccaa tggaaattca	780
gaagtagtaa aactcstgtt ggacagacga tggcaactta atgtccttga caacaaaaag	840
aggacagctc tggaaaaggc cgtacaatgc caggaagatc aatgtgcgtt aatgttgc	900
gaacatggca ctgatccaa tattccagat gaggatggaa ataccactt ractaygt	960
rtctayaatg aagataaaattt aatggccaaa gcaactgtct tataygggtc tgatatcgaa	1020
tcaaaaaaca aggtatagat ctactaattt tatcttcaaa atactgaaat gcattcattt	1080
taacatttgc gttgtgttggg gccagttcc cgtatggaa agtcaagca taacttgaat	1140
gaaaatattt tggaaatggcc taattatctm agactttttt tttttttttt ttttttttcaaa	1200
agaagcatta gagggtacag tttttttttt tttttttttt tttttttttt tttttttttt	1260
gaaaacactg aattttgtaaa aggttaatact tactatttt tttttttttt tttttttttt	1320
ttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1380
actccaagaa aagttaaaca tttttttttt tttttttttt tttttttttt tttttttttt	1440
taaaaaacag taatagatac gaggtgtatgc gcctgtcgtt ggcaagggtt aagatatttcc	1500
tgatctcgcc cc	1512

<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

gggtcgccca gggggsgcgt gggcttcctt cgggtgggtg tgggtttcc ctgggtgggg	60
tgggtgggc trgaatcccc ttcttgc tttttttttt gatggggcaag	120
ttcaaacaga ttggaaaccc ggagttaccc ttcttgc tttttttttt gatggggcaag	180
atctgttggc tactactggc ttctcctggc tttttttttt gatggggcaag	240
tccatgccgg ctgcttc tttttttttt gatggggcaag	300
tggtgc tttttttttt ccattttggc tcaggagcaag gatggggcaag	360
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cactgcttcc cttgtcgag gggggatggc aagagcaacg tggcgttcc tggagaccac	480
gacgatctg ctatgaagac actcaaggaa aagatggggca agtgggtgt ccactgcttcc	540
ccctgctgca gggggagcrca caagagcaag gtggcgttcc gggggagacta cgatgacagy	600
gccttcatgg agccccggta ccacgtccgt ggagaagatc tggacaagct ccacagagct	660
gcctgggtgg gtaaaagtccc cagaaggat ctatcgta tggcgttcc aactgacgt	720
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gaagtagtaa aactcstgtt ggacagacga tggcaactta atgtccttga caacaaaaag	840
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gaacatggca ctgatccaa tattccagat gaggatggaa ataccactt ractaygt	960
rtctayaatg aagataaaattt aatggccaaa gcaactgtct tataygggtc tgatatcgaa	1020
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gtsgtggaaat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1140
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aaaacagcaa tccagaacaa gactttaaagc tgacatcaga ggaagagtca	1440
caaaggctt aaggaaatgtt aaacagccag ccagaggcat gggaaactttt aaattttaaac	1500
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1560
cctatgagac taggctttttt tttttttttt tttttttttt tttttttttt tttttttttt	1620
gcgggtgtctc acgcctgtta ttccagcacc ttggagaggct gagggtggca gatcacgaga	1680
tcaggagatc gagaccatcc tggctaaacac ggtgaaaccc catctctact aaaaatacaa	

aaacttagct gggtgtggtg gcgggtgcct gtatcccag ctactcagga rgctgaggca	1740
ggagaatggc atgaaccccg gagggtggagg ttgcagttag ccgagatccg ccactacact	1800
ccagcctggg tgacagagca agactctgtc tcaaaaaaaaaaaa aaa	1853

<210> 370
 <211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370

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tttcctctga gaactqcaac aataaataca aggatgctgg attttgtcaa atgcctttc	180
tgtgtctgtt gagatgctta tgtgacttg ctttaatto tgtttatgtg attatcacat	240
ttattgactt gcctgtgtt gaccgaaaga gctgggggtgt ttctcaggag ccaccgtgtg	300
ctgcggcagc ttccggataa cttgaggctg catcactggg gaagaaacac aytctgtcc	360
gtggcgtga tggctgagga cagagttca gtgtggctt tctgcgactg gcttcttcgg	420
ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta	480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctt ttagtgtgtga	540
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gctttctcca cttgcttggaa agtgcactgc tgccagaag tttgtatggct gaggagtata	720
ccatcgtgca tgcatactttt atttcctgc ttcttcctt cctggatggc cagggggagc	780
ggcaagagca acgtgggacac ttctggagac cacaacgact cctctgtgaa gacgcttggg	840
agcaagaggt gcaagtgggtt ctgcactgc ttcccctgtc gcaggggagc ggcaagagca	900
acgtggtcgc ttggggagac tacgtgaca ggccttcat ggatcccagg taccacgtcc	960
atggagaaga tctggacaag ctccacagag ctgcctggg gggtaaagtc cccagaaagg	1020
atctcatctgt catgctcagg gacacggatg tgaacaagag ggacaagcaa aagaggactg	1080
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gccaggaaga tgaatgtcg ttaatgtgc tgaacatgg cactgatcca aatattccag	1260
atgagtagatgg aaataccact ctacactatg ctgtctacaa tgaagataaa ttaatggca	1320
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cgaattaaa tgcgctggat agatatggaa gaaactgctct catactgtc gtatgttg	1500
gatcagcaag tatagtcaagc cctctacttg agaaaaatgt ttagttagatct tctcaagatc	1560
tggaaagacg gccagagagt atgctgtttc tagtcatcat catgtatggt gccagttact	1620
ttctgactac aaagaaaaac agatgtttaa aatctcttct gaaaacagca atccagaaca	1680
agacttaaag ctgacatcg aggaagagtc acaaaggctt aaaggaagtg aaaaacagcca	1740
gccagaggca tggaaacttt taaattttttt cttttgggtt aatgtttttt ttttttgcct	1800
taataatatt agatagtcoccaaatgaaatw acctatgaga ctaggcttg agaatcaata	1860
gattttttt ttaagaatct ttggcttgg agcgggtgtct caccgcgtt atccagcac	1920
cttggagggc tgaggtgggc agatcacagat atcaggagat cgagaccatc ctggctaaca	1980
cggtaaacc ccatctctac taaaataca aaaaacttagc tgggtgtggt ggccgggtgcc	2040
tgtatgtccca gctactcagg argctgaggc aggagaatgg catgaacccg ggaggtggag	2100
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ctcaaaaaaaaaaaa aaaaaaaaaaaa aaaa	2184

<210> 371
 <211> 1855
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1855)
 <223> n = A,T,C or G

<400> 371

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gccc	ccccc	cataacc	agactgg	gtaacgg	gcaggcg	180
cgt	aacgg	cttgg	gtaacgg	gcacgt	gctgca	240
ttgg	ctgg	cttgg	ttgg	ttggat	ttggat	300
tcttgg	ttgg	ttgg	ttgg	ttggat	ttggat	360
tcgcgtt	ttgg	ttgg	ttgg	ttggat	ttggat	420
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atcccc	ttgggtgg	agg	tttttctt	aaacagatt	gaaacccgga	600
gtaacnt	gtgggtgaa	actgg	agacgc	tgctgtact	actgttctc	660
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ccccagaaa	gatctcat	tcat	gactgt	ggacact	gtgaca	1080
aaagaggact	gctctacat	tgg	cata	aatgg	tcagaag	1140
gctggacaga	cgatgt	caac	ttaatgt	tgacaaca	aagaggac	1200
ggccgtacaa	tgcc	aggaag	atgaatgt	gttaatgt	ctgtgac	1260
aatattcca	gatg	gatg	gaaatacc	tctacact	gtgtct	1320
attaatggcc	aaag	actgc	tcttatac	tgctgat	aatcaaaa	1380
gatctactaa	tttatctt	aaa	actgt	tttaacatt	gacgtgt	1440
agggccagtc	ttccgtat	ttt	ggaagct	gcataact	aatgaaa	1500
acctaattat	ctaagactt	at	ttttaaata	ttgttattt	caaagaag	1560
cagtttttt	tttttaa	at	cactct	aaatactt	ttgaaaaca	1620
aaaaggtat	acttactt	ttt	caattt	ttccctct	ctgaaattt	1680
tgtaagatgg	caa	aaattt	cc	tgttacat	aaaactcc	1740
acatgttca	gt	aaat	atc	tttgc	tttgc	1800
tacgaggtga	tg	cg	ctgtc	tgtgg	tttgc	1855

<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

gcaacgtgg	cacttctg	gaccacaac	actcctct	gaagacg	gggagcaaga	60
ggc	gtg	ctg	ctg	gg	gac	120
gcgttgrgg	agactmcg	gacag	tc	cat	gg	180
aagatctgg	caagctcc	agag	ctg	ccc	gg	240
atcg	tcagg	gac	tgay	gt	gac	300
catctgg	ctg	cc	atgg	aa	gt	360
caacttaat	tc	tt	gac	aa	gt	420
gaagatgaat	gt	gc	tt	gt	gg	480
tatggaaata	cc	act	ct	tc	ta	540
ctg	ct	tt	ayy	gt	gt	600
cttcaaaata	ct	gaa	at	ttt	aa	660
at	ttt	gg	tt	ttt	tt	720
cttatttta	aa	ttt	ttt	ttt	ttt	780
aat	ttt	ttt	ttt	ttt	ttt	840
aat	ttt	ttt	ttt	ttt	ttt	900
ttt	ttt	ttt	ttt	ttt	ttt	960
ttt	ttt	ttt	ttt	ttt	ttt	1020
ttt	ttt	ttt	ttt	ttt	ttt	1059

<210> 373
<211> 1155
<212> DNA
<213> Homo sapien

<400> 373

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ggcgcttctg	gagaccacga	cgactctgt	atgaagacac	tcaggaacaa	gatgggcaag	300
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gacaagctcc	acagagctgc	ctgggtgggt	aaagtccca	gaaaggatct	catcgatcg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagaaaaga	ggactgctct	acatctggcc	540
tctgcataatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgtat	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaaggcc	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tgttgcgtga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgttat	ctataatgaa	gataaaattaa	tggccaaagc	actgcttta	780
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catgagcaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgcgttat	gttggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgt	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgttaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctttct	gaaaacagca	atccagaaca	agacttaaag	1140
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<210> 374
<211> 2000
<212> DNA
<213> Homo sapien

<400> 374

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atggcaagt	ggtgcgc	ctgctcccc	tgctgcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgt	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgcgtcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttgg	360
ggagactacg	atgacagtgc	ttcatggag	cccaggta	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtccca	gaaaggatct	catcgatcg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagaaaaga	ggactgctct	acatctggcc	540
tctgcataatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgtat	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaaggcc	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tgttgcgtga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgttat	ctataatgaa	gataaaattaa	tggccaaagc	actgcttta	780
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catgagcaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
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gtcagccttc	tacttgagca	aaatattgt	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgttaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctttct	gaaaacagca	atccagaaca	agacttaaag	1140
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atgctcaag	aaccagaat	aaataaggat	gttgcata	gggtatagag	agggtgaaga	1260
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cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgaat	tagtgcgttg	ctacaaagaa	1440
aaacagatgc	aaaaataactc	ttctgaaaac	agcaacccag	aaacagactt	aaagctgaca	1500

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agaacacctg aaagccagca	atttcctgac	actgagaatg	aagagtatca	cagtgacgaa	1740
caaaaatgata ctcagaagca	attttgtgaa	gaacagaaca	ctggatatatt	acacgatgag	1800
attctgattc atgaagaaaaa	gcagatagaa	gtggttgaaa	aatgaattc	tgagctttct	1860
cttagttgta agaaagaaaaa	agacatcttgc	catgaaaata	gtacgttgcg	ggaagaaaatt	1920
gccatgctaa gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa				2000

<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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agcaacgtgg gcacttctgg	agaccacgc	gactctgcta	tgaagacact	caggagcaag	180
atggcaagt ggtggccca	ctgctcccc	tgctgcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctgcc actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg atgacagtgc	cttcatggag	cccaggatcc	acgtccgtgg	agaagatctg	420
gacaagctcc acagagctgc	ctggggggt	aaagtcccc	gaaaggatct	catcgatcg	480
ctcagggaca ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgtct	acatctggcc	540
tctgccaatg gaaattcaga	agtagaaaa	ctctgctgg	acagacatg	tcaacttaat	600
gtccttgaca acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa tggctggaa	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtctg atatcgatc	aaaaaacaag	catggcctca	caccactgtt	acttggtgta	840
catgagcaaa aacagcaagt	cgtaaattt	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat atgaaaggac	tgctctcata	ctgctgtat	gttggatgc	agcaagtata	960
gtcagcctc tacttgagca	aaatattgt	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt atgcttttc	tagtcatcat	catgtat	gccagttact	ttctgactac	1080
aaagaaaaac agatgctaa	aatctttct	gaaaacagca	atccagaaca	agacttaaag	1140
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cctgacaacg aaagtgaaga	gtatcacaga	atttgcgaat	tagttctga	ctacaaagaa	1440
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caagaaccag aaataaataa	ggatgggtat	agagagctag	aaaattttat	ggctatcgaa	1620
gaaatgaaga agcacggaa	tactcatg	ggattcccg	aaaacctgac	taatggtgc	1680
actgtggca atgggtatga	tggattatt	cctccaagga	agagcagaa	acctgaaagc	1740
cagcaatttc ctgacactga	gaatgaagag	tatcacagt	acgaacaaaa	tgataactcg	1800
aagcaatttt gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga tagaagtgg	tggaaaaatg	aattctgagc	tttctcttag	ttgtaaagaaa	1920
gaaaagaca ttgtcatga	aaatgtacg	ttgcgggaa	aaattgcct	gctaagactg	1980
gagctagaca caatgaaaca	tcagagccag	ctaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

<210> 376

<211> 329

<212> PRT

<213> Homo sapien

<400> 376

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe

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Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser			
35	40	45	
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg			
50	55	60	
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val			
65	70	75	80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val			
85	90	95	
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr			
100	105	110	
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp			
115	120	125	
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp			
130	135	140	
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser			
145	150	155	160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys			
165	170	175	
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala			
180	185	190	
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly			
195	200	205	
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr			
210	215	220	
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr			
225	230	235	240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu			
245	250	255	
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys			
260	265	270	
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu			
275	280	285	
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu			
290	295	300	
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu			
305	310	315	320
Ser Met Leu Phe Leu Val Ile Ile Met			
325			

<210> 377
<211> 148
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

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20 25 30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys

35	40	45
Gln Lys Arg Thr Ala Leu His	Leu Ala Ser Ala Asn	Gly Asn Ser Glu
50	55	60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys	Gln Leu Asn Val	Leu Asp
65	70	75
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys	Gln Glu Asp	
85	90	95
Glu Cys Ala Leu Met Leu Leu Glu His	Gly Thr Asp Pro Asn Ile Pro	
100	105	110
Asp Glu Tyr Gly Asn Thr Thr Leu His	Tyr Ala Xaa Tyr Asn Glu Asp	
115	120	125
Lys Leu Met Ala Lys Ala Leu Leu Tyr Gly Ala Asp Ile Glu Ser		
130	135	140
Lys Asn Lys Val		
145		

<210> 378
 <211> 1719
 <212> PRT
 <213> Homo sapien

<400> 378		
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys		
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Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp		
35	40	45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp		
50	55	60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val		
65	70	75
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn		
85	90	95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser		
100	105	110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe		
115	120	125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His		
130	135	140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met		
145	150	155
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala		
165	170	175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu		
180	185	190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr		
195	200	205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met		
210	215	220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn		
225	230	235
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys		
245	250	255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly		
260	265	270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val		
275	280	285

Lys Phe Leu Ile Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380
 Pro Arg Thr His Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser
 385 390 395 400
 Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys
 405 410 415
 Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly
 420 425 430
 Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys
 435 440 445
 Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly
 450 455 460
 Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys
 465 470 475 480
 Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys
 485 490 495
 Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp
 500 505 510
 Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu
 515 520 525
 Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp
 530 535 540
 Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln
 545 550 555 560
 Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val
 565 570 575
 Val Lys Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn
 580 585 590
 Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu
 595 600 605
 Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp
 610 615 620
 Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys
 625 630 635 640
 Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys
 645 650 655
 Asn Lys His Gly Leu Thr Pro Leu Leu Gly Val His Glu Gln Lys
 660 665 670
 Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala
 675 680 685
 Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly
 690 695 700
 Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser
 705 710 715 720
 Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser
 725 730 735
 His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln
 740 745 750

Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys
 755 760 765
 Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser
 770 775 780
 Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp
 785 790 795 800
 Arg Glu Val Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly
 805 810 815
 Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn
 820 825 830
 Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe
 835 840 845
 Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser
 850 855 860
 Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn
 865 870 875 880
 Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu
 885 890 895
 Glu Gly Ser Glu Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile
 900 905 910
 Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn
 915 920 925
 Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro
 930 935 940
 Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu
 945 950 955 960
 Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe
 965 970 975
 Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His
 980 985 990
 Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser
 995 1000 1005
 Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu
 1010 1015 1020
 Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His
 1025 1030 1035 1040
 Gln Ser Gln Leu Pro Arg Thr His Met Val Val Glu Val Asp Ser Met
 1045 1050 1055
 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met
 1060 1065 1070
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
 1090 1095 1100
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 1120
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
 1140 1145 1150
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp
 1155 1160 1165
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
 1170 1175 1180
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
 1185 1190 1195 1200
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215

Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
 1220 1225 1230
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 1280
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 1360
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 1440
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
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 1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680

Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

 <210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

 <400> 379
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile

355	360	365
Ser Ser Glu Asn Ser Asn Pro	Glu Gln Asp Leu Lys	Leu Thr Ser Glu
370	375	380
Glu Glu Ser Gln Arg Phe	Lys Gly Ser Glu Asn	Ser Gln Pro Glu Lys
385	390	395
Met Ser Gln Glu Pro Glu Ile	Asn Lys Asp Gly Asp	Arg Glu Val Glu
405	410	415
Glu Glu Met Lys Lys His	Glu Ser Asn Asn Val	Gly Leu Leu Glu Asn
420	425	430
Leu Thr Asn Gly Val Thr Ala	Gly Asn Gly Asp Asn	Gly Leu Ile Pro
435	440	445
Gln Arg Lys Ser Arg Thr Pro	Glu Asn Gln Gln	Phe Pro Asp Asn Glu
450	455	460
Ser Glu Glu Tyr His Arg Ile Cys	Glu Leu Val Ser Asp	Tyr Lys Glu
465	470	475
Lys Gln Met Pro Lys Tyr Ser Ser	Glu Asn Ser Asn Pro	Glu Gln Asp
485	490	495
Leu Lys Leu Thr Ser Glu Glu Glu	Ser Gln Arg Leu Glu	Gly Ser Glu
500	505	510
Asn Gly Gln Pro Glu Leu Glu Asn Phe	Met Ala Ile Glu	Glu Met Lys
515	520	525
Lys His Gly Ser Thr His Val	Gly Phe Pro Glu Asn	Leu Thr Asn Gly
530	535	540
Ala Thr Ala Gly Asn Gly Asp Asp	Gly Leu Ile Pro	Pro Arg Lys Ser
545	550	555
Arg Thr Pro Glu Ser Gln Gln	Phe Pro Asp Thr Glu Asn	Glu Glu Tyr
565	570	575
His Ser Asp Glu Gln Asn Asp Thr	Gln Lys Gln Phe Cys	Glu Glu Gln
580	585	590
Asn Thr Gly Ile Leu His Asp Glu Ile	Ile His Glu Glu Lys	Gln
595	600	605
Ile Glu Val Val Glu Lys Met	Asn Ser Glu Leu Ser	Leu Ser Cys Lys
610	615	620
Lys Glu Lys Asp Ile Leu His Glu Asn Ser	Thr Leu Arg Glu Glu	Ile
625	630	635
Ala Met Leu Arg Leu Glu Leu Asp Thr	Met Lys His Gln Ser	Gln Leu
645	650	655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser	Met Pro Ala Ala Ser Ser	Val Lys Lys
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Pro Phe Gly Leu Arg Ser Lys	Met Gly Lys Trp Cys Cys	Arg Cys Phe
20	25	30
Pro Cys Cys Arg Glu Ser Gly	Lys Ser Asn Val Gly	Thr Ser Gly Asp
35	40	45
His Asp Asp Ser Ala Met Lys	Thr Leu Arg Ser Lys	Met Gly Lys Trp
50	55	60
Cys Arg His Cys Phe Pro Cys	Cys Arg Gly Ser Gly	Lys Ser Asn Val
65	70	75
Gly Ala Ser Gly Asp His Asp Asp	Ser Ala Met Lys Thr	Leu Arg Asn
85	90	95
Lys Met Gly Lys Trp Cys Cys	His Cys Phe Pro Cys Cys	Arg Gly Ser
100	105	110

Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575

Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

<400> 381

ggagaagcgt ctgctggggc aggaagggtt ttcctgtccc ttcacatgt ccctcaccaa	60
ggtaacatgc ttccctaa ggtatccaa cccaggggcc tcaccatgac ctctgagggg	120
ccaatatccc aggagaagca ttggggagtt gggggcaggt gaaggaccca ggactcacac	180
atcctgggcc tccaaggcag aggagagggtt cctcaagaag gtcaggagga aaatccgtaa	240
caagcagtca g	251

<210> 382

<211> 3279

<212> DNA

<213> Homo sapiens

<400> 382

cttcctgcag cccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa	60
atgtggagg gtgtcaggaa gtgatcgcc tctggggcag ggaggagggg tggggagtgt	120
caactggagg ggacatctg cagaaggtag gagtgagcaa acacccgtc caggggagggg	180
gagagccctg cgccacctgg gggagcagag ggacgcac ctgcccaggc ctggaggagg	240
gggcctggag ggcgtgaggg ggagcggagg ggctgcattgg ctggagttag ggatcagggg	300
caggcgcga gatggcctca cacagggaaag agagggccccc tccctgcaggc ctcacatgg	360
gccacaggag gacactgctt ttcctctgag gagtcaggag ctgtggatgg tgctggacag	420
aagaaggaca ggcctggct cagggttcca gagctgtcg ctggcttccc ttggatca	480
gactgcaggg agggaggcg gcagggtgtt gggggagtg acgatggaa tgacctgggg	540
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cctcatgttc tcccttccac tccatctcc atctggcctc atgggtcat tctgatcat	660
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ggacatctag tcagagagta gtccctgaaga ggtggctct gcatgtgccc tggggggca	780
gcattccgtca gatggtccc gccctcatcc tgctgacctg tctgcaggaa ctgtccctt	840
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gagcctgttt ccctctgtt gactccctgc ccatattttt gtggggatgg gttctggaga	960
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 cccagctgat agaggaagta gccaggtggg agccttccc agtgggtgtg ggacatatct 3180
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<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

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Gly	Lys	Arg	Gly	Pro	Leu	Leu	Gln	Gly	Leu	Thr	Trp	Ala	Thr	Gly	Gly
20									25					30	

His	Cys	Phe	Ser	Ser	Glu	Glu	Ser	Gly	Ala	Val	Asp	Gly	Ala	Gly	Gln
35									40					45	

Lys	Lys	Asp	Arg	Ala	Trp	Leu	Arg	Cys	Pro	Glu	Ala	Val	Ala	Gly	Phe
50									55					60	

Pro	Leu	Gly	Ser	Asp	Cys	Arg	Glu	Gly	Gly	Arg	Gln	Gly	Cys	Gly	Gly
65									70					75	

Ser	Asp	Asp	Glu	Asp	Asp	Leu	Gly	Val	Ala	Pro	Gly	Leu	Ala	Pro	Ala
85									90					95	

Trp	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Gln	Ser	Pro	Gly	Pro	Gln	Ser	Leu
100									105					110	

Pro	Ser	Thr	Pro	Ser	Ser	Ile	Trp	Pro	Gln	Trp	Val	Ile	Leu	Ile	Thr
115									120					125	

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
130 135 140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
145 150

<210> 384
<211> 557
<212> DNA
<213> *Homo sapiens*

<210> 385
<211> 337
<212> DNA
<213> *Homo sapiens*

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<400> 385
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tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgcata 180
aaacgtggag gtgcgtttcc tcagctaaga agcccttagc aaaagctcgat atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgtggtt ccctgtcgat gtctggatct 300
cttggccac caattcccccc tttccacat cccggca 337
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<210> 386
<211> 300
<212> DNA
<213> *Homo sapiens*

<400> 386
ggggccgcta ccggccccagg ccccgccctcg cgagtccctcc tccccgggtg cctgcccgc 60
gccccgctcg cccagagggt gggcgcgggg ctgcctctac cggctggcgg ctgttaactca 120
gcgacaccttg cccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcggcggc 180
gcggactttg cccggtgtgt ggggcggagc ggactgcgtg tcccgccgacg ggcagcgaag 240
atgtttagccct tcgctgccag gaccgtggac cgatcccagg gctgtqgtqt aacctcaqcc 300

<210> 387
<211> 537
<212> DNA
<213> *Homo sapiens*

<400> 387
ggcccgagtc gggcaccaag ggactctttg caggcttcct tcctcgatc atcaaggctg 60
ccccctcttg tgccatcatq atcagcacct atqagtccqq caaaaagcttc ttccagagggc 120

tgaaccagga ccggcttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg cttttcctc agcaactgagg 240
gagggggctt gtttccttc cttcccggcg acaagctcca gggcagggt gtccctctgg 300
gcggcccccgc acttcctca g acacaacttc ttctgtgc tccagtcgt gggatcatca 360
cttacccacc ccccaagttc aagaccaaattt ctccagctg cccccctcgt gttccctgt 420
gtttgctgtta gctggcattt tctccaggaa ccaagaagcc ctcagctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaaaaaaaaa 537

<210> 388
<211> 520
<212> DNA
<213> Homo sapiens

<400> 388
aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgaggttaaa ccagtttgc ttcccttaat gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgcctcttc acagttctg agaatttgtt tatttcattt gccaagtgaa 180
ggacccccc cccaaacatgc cccagcccc cccataagcat ggtccctgtt caccaggcaa 240
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acttccccca ccccaagaaga ttagcatccc atactagact cataactcaac tcaacttaggc 360
tcataactcaa ttgatggta ttagacaattt ccatttctttt ctggtttata taaacagaaa 420
atcttcctc ttctcattac cagtaaaggc tcttggtac tttctgttgg aatgatttct 480
atgaacttgtt ctatatttaa tggtgggttt tttttctgtt 520

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

<400> 389
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aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcttag aagcgtctt 180
aagcctatgg ccagctgtct ttgtgttccc ttcacccgc ctgtcctcac agctgagact 240
cccagggaaac cttcagacta ctttcctctg ctttcagcaa ggggcgttgc ccacattctc 300
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<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

<400> 390
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tacacggntt ctcatgggtt tgaaacatct ctgcttgcgg tttcaggaag gcctctggct 120
gctctangag tctganncna ntcgttgcctt cantntgaca naaggaaagg cgagcttat 180
tcaaagtcta gagggagtgg aggagttaa gctggatttc a 221

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(325)

<223> n = A,T,C or G

<400> 391

tggagcagg t cccgaggcct ccctagagcc tggggccgac tctgtgnca tgcangctt 60
ctctcgccc cagcctggag ctgctctgg catctaccaa caatcagnng agggcagcag 120
tagccaggc actgctgcc a acagccagtc cnatnacat catgtgnacc ggtgnctct 180
naantngat ntccanagcc ctacccatcn tagttctgct ctcccacccg ntaccagccc 240
caactgcccag gaatcctaca gccagtagcc tgcctccgacg tctctaccta ccagtacgat 300
gagacctccg gctactacta tgacc 325

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

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agtctcaactt ngcncagngn ctcctacttg agtctcttcc cccgcctgnn ccagtngnaa 120
antaccanga accgnatgn cttaaaacn ncctggttt tgggtnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgttaggat taaaatctca cagtggcgg 240
ctgaggatac agcgcgcgt cctgtgttgc tgggaa 277

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

actagttccag tgggtggaa ttgcggccg cgtcgacgga caggtcagct gtctggctca 60
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ttggccggaa cactgcagag acaatgtgtt gagttccaa ccttagccca tctgcggca 180
gagaagggtct agtttgtcca tcagcattat catgatatac ggactggta cttggtaag 240
gaggggctca ggagatctgt ccctttttaga gacacccatc ttataatgaa gtatttggga 300
gggtggttt caaaatgtt aatgtccgtt attccgatga tcatcctgtt aacattttat 360
catttttaaa tcatccctgc ctgtgttat tattatattc atatctctac gctgaaaact 420
ttctgcctca atgtttactg tgcctttgtt ttgtctgtt tttgtgttgg aaaaaaaaaa 480
cattctctgc ctgagttta atttttgtcc aaagtttattt taatctatac aattaaaaagc 540
ttttgcctat caaaaaaaaaa aaaaaaaaaa 566

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

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gcaggaggac cgggctttaa ggagtttaa gctgagtgtc actgttagacc ccaaataccaa 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag ttcctgata aggacgatgg gaaccagccc caggacccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgtata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgacccctg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcatttcattt cgaaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttt cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatctcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcatttc ctcaactacag acctctgacc atgggacggt 360
gcagcctgggt gagaccatcc aatccaaat aaaatgcac 399

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

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agacaaggac aaccgtttcc ttcataactc tctagagaaa aaaaggagtt gtttagtagat 180
actaaaaaaa gtggatgaat aatctgata tttttctaa aaagattctt tgaaacacat 240
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<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397

actagtncag tgtggtgaa ttgcggccg cgtcgaccta naanccatct ctatagcaaa 60
tccatccccg ctccgttgc gtnacagaat gactgacaaa 100

<210> 398

<211> 278

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 398
gcggccgcgt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cgacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtgg actcatcatg 180
ctccggcag cccatccacc ttgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 399
acggagggtgg aggaagcgnc cctggatcg anaggatggg tcctgnatt gaccnccctn 60
gggggtgcnc catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtggct 120
ccgagatcga ggcgcattggc ctggatcg accgcattggg ctccgtggag cgcattggct 180
ccggcattga ggcgcattggc ccgcgtggcc tcgaccacat ggctccanc attgancgca 240
tggccagac catggagcgc attggctcg gctgtggacn catgggtgcc ggcattggg 298

<210> 400
<211> 548
<212> DNA
<213> Homo sapiens

<400> 400
acatcaacta cttcctcatt ttaaggatcg gcagttccct tcattccctt ttcctgcctt 60
gtacatgtac atgtatgaaa ttcccttc ttaaccgaaact ctctccacac atcacaagg 120
caaagaacca cacgcttaga aggtaagag ggacccctat gaaatgaaat ggtgatttct 180
tgagtccttt tttccacgt ttaaggggcc atggcaggac ttagagtgc gagtaagac 240
tgcagaggcc tagagaatta ttccatacag gcttgaggc caccatgtc acttatcccg 300
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tggcagct 360
gttggcccca taattctggg cttttgtgt ttgtttaat tactggcata tcccaggaag 420
ctttccatgt attccttacc atggcccccc ctctggat caagccctc ccaggccctg 480
tcccagccc ctccgtcccc agcccccccg ctgccttgg tgctcagccc tccattggg 540
agcaggtt 548

<210> 401
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

<400> 401

actgtttcca tggatgttt ctacacattg ctacacctg gtcctggaa acttagctt 60
tgatgtctcc aagtgtcca cttcatata actctttgaa actgtatcat ctttgcgaag 120
taagagtggt ggccttatttc agctgtttg acaaaaatgac tggctctga cttaacgttc 180
tataaatgaa tggctgaag caaagtcccc atgggtggcg 240
tttgcgtttgg actctctgtg gtcccttcca atgctgnngg tttccaacca ggggaagggt 300
ccctttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

atggggcaag ctggataaaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatgaaaaa cagaaaaaaag caggtgttgc actctactt tctgacaaaaa cagactatgc 180
gaataaaagat aaaaaagaga aggacattac aaaggtggtc ctgaccccttataaaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
tttgtgagct tctcccctgc agagagtccc tggatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc ctttctgaa gtttactca tttccaa 407

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaaa 60
tcctaagcaa gagccatggc atggtaaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcataaca aaaaggcaga caccacatg gatctcatgg 180
gggattggat attgtattha tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattatttac ataaacctcc attcgtaac catgttgaaa 300
gga 303

<210> 404

<211> 225

<212> DNA

<213> Homo sapiens

<400> 404

aagtgttaact tttaaaaatt tagtgattt tgaaaattct tagagggaa taaaggaaaa 60
attgttaatg cactcatata ctttacatg gtggaaagtcc tctcttgatc ctacaaacag 120
acattttcca ctcgtgttcc catagtttt aagtgtatca gatgtgtgg gcatgtgaat 180
ctccaagtgc ctgtgtataata aataaagtat ctttatttca ttcat 225

<210> 405

<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgagggttg tctggaggac 60
ttcaatacac ctcggccat agtgaatcag cttccagggg gtccagttcc ttccttact 120
tcatccccat cccatgc当地 aggaagaccc tccctccttg gctcacagcc ttctcttaggc 180
ttcccaagtgc ctccaggaca gagtggtta tggtttcagc tccatccttg ctgtgagtgt 240
ctggtgcggt tgcgcctcca gcttctgctc aigtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatcccac ccct 334

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 406
tttcataacct aatgagggag ttganatnac attnnaaccag gaaatgc当地 gatctcaang 60
gaaacaaaca cccaataaaac tcggagtggc agactgacaa ctgtgagaca tgcacttgc 120
acnaaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggtat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

<400> 407
gctgacttgc tagtatcatc tgcatttcatt gaagcacaag aacttc当地 cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt goacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggc tatgtctaa tgtgttatgg caaatggatg tcatgcacgt accttcatti 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaaatct tcccatgtta aaagacattt attatctgt tttcctgtca 360
tgggagttcc agaaaaatgtt aaaacagaca atgggccagg ttctgttagta aag 413

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

<400> 408

ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatccta actagtccct ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tattnactcc ttccctggcta cccatgtact 180
ntt 183

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

<400> 409
cccacgcatt ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatctt ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gcccccagga cagcgtggc tatgtttaca ggcncntcctt gctggggggg 240
ggcncntatgc 250

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttcgaa tcccatattgc aggatccgtc tggcactgt aaggtgctt ctccccaaga cacatcctaa 120
cccagggacc ttggaaacag ttggcactgt aaggtgctt ctccccaaga cacatcctaa 180
aaggtgttgt aatggtaaa accgcttcct tctttattgc cccttctt ttagtgaac 240
nactggttgg ctttttttg atctttttta aactggaaag ttcaatttng aaaatgaata 300
tcntgc 306

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 411
agagatattn cttaggttaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggatttagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagattcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggnngaggcaa a 261

<210> 412

<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

<400> 412
gttcaatgtt acctgacatt tctacaacac cccactcacc gatgtattcg ttgcccagt 60
ggaacataacc agcctgaatt tggaaaaaat aatttgtttt ctggccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggagggag 180
ctggagatt tcactggta cattgaattc ccaaactacc cangcaatta cccagccaac 240
a 241

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtac cttcttttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tectcatttgc gaacctaaaa actctttct tcctgggtct gagggctcca 180
agaatccttg aatcanttct cagatcatttgc gggacacccan atcaggaacc t 231

<210> 414
<211> 234
<212> DNA
<213> Homo sapiens

<400> 414
actgtccatg aaggactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac ccactctgtc ctggaggcac tggaaaggct agagaaggct 120
gtgagccaag gagggagggt cttcctttgg catggatgg ggatgaagta aggagaggga 180
ctggacccccc tggaaagctga ttcaactatgg ggggaggtgtt attgaagtcc tcca 234

<210> 415
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

<400> 415
gcataggatt aagactgagt atctttcta cattctttta actttctaag gggcacttct 60
caaaacacag accaggtac aaatctccac tgctctaagg ntctcaccac cacttctca 120
cacctagcaa tagtagaatt cagtcctact tctggggcca gaagaatggt tcagaaaaat 180
antggattat aaaaaataac aattaagaaa aataate 217

<210> 416
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G

<400> 416
atgcataatnt aaagganact gcctcgcttt tagaagacat ctggnctgct ctctgcatga 60
ggcacacgca taaagcttct tgattccctag aatcaagaac tctcccttc agactattac 120
cgaatcaag gtggtaattt gaaggccact aattgtatgc caaatagaag gatattgact 180
atattggAAC agatggagtc tctactacaa aag 213

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

<400> 417
nagtcttcagg gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtggaaagg ctttactctg agttcaaatc ttcaagccca tcagagagtc cacactggag 120
agaaggccata caaaatgcaat gagtggttggaa agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaattg tgagatatgt gggaggcgt 240
tcantcaaag ttcttatctt caaatccatc ngaaggncca cagttananaa aacccttta 300
agt 303

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

<400> 418
tttttggcgg tggtggggca gggacgggac angagtctca ctctgttgc caggctggag 60
tgcacaggca ttagtctggc tcactacaac ccctgcctcc catgtccaaag cgattttgt 120
gcctcagcct tccctgttagc tagaattaca ggcacatgcc accacaccca gctatttttt 180
gtatTTTtag tagagacagg gtttcaccat gttggccagg ctggtctcaa actctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtctan gattacaggc cgtgagcc 328

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(389)

<223> n = A,T,C or G

<400> 419

cctcccaag acggcctgtg gtccgcctcc cgcaaccaa gaagcctgca gtgccatatg 60
acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttggttccct ctctgtggct ccattcatag cacagttgtt gcactgaggc ttgtgcagggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggttctcc agccaccaac ctcactcgct cccgcaaatg gcacatcagt tcttctaccc 300
taaaggtagg accaaaggc atctgtttt ctgaagtctt ctgctctatc agccatcagc 360
tggcagccac tcnggctgtg tcgacgcgg 389

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

gttcctccata actcctgcca gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccaggc agcaaggcctt agccttgct tcttggtttgc gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttgc tgactttgggt gtttcggcat ggagaccgaa 180
gtcccattga caccttccc actgacccca taaaggaatc ctcatggcca caaggatttgc 240
gccaactcac ccagctggc atggagcagc attatgaact tggagagttataaagaaga 300
gatataaaaa attcttgaat gagtccataa aacatgaaca gtttatattt cgaagcacag 360
acgttacccg gactttgtatc aagtgtatc acaaaccctgg caagcccg 408

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

gctaaaaat cttttactg atnngcatgg ctacacaatc attgactatt acggaggc 60
gaggagaatg aggccctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gacaggctt tttttgggtc cttttctcc accacnatat acttgcagtc 180
ctcctcttg aagattctt ggcagttgtc tttgtcataa cccacaggtg tagaaaacaag 240
ggtgcaacat gaaatttctg tttcgttagca agtgcattgtc tcacaaggatc gcangtctgc 300
cactccgagt ttattgggtt tttgttcct ttgagatcca tgcatttcct gg 352

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

atgccacccat gctggcaatg cagcggccgg tcgaaggcct gcataatccag cccaaaggctgg 60
cgatgatcga cgcaaccgt tgcccaagt tgccgatgcc agccgaagcg gtggcaagg 120
gcgatagcaa ggtgcggccg atcgcggccg cgtaatccct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggccgg cataagggt 240
atccgacacc ggtgcacccgt gaagccttgc agccgctggg gccgacccg attcaccgac 300
gcttctccg ccggtaacggc tggcctatga aaattat 337

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

<400> 423
gctcaaaaat cttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggcctggcct gggagccctg tgctactan aagcnccatta gattatccat 120
tcactgacag aacaggtctt tttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattcttg gcagttgtct ttgtcataaac ccacaggtgt anaaaacaagg 240
gtgcaacatg aaatttctgt ttcgttagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

<210> 424
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G

<400> 424
gctcaaaaat cttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
caactgacaga acaggctttt tttgggtcc tcttctccac cacgatatac ttgcagtcc 180
ccttcttga gattcttgg cagttgtctt tgtcataacc cacaggtgt aaaaacatcc 240
ggttgaatct ccttggactc cctcatttagg tatgaaatag catgtatcat tgcataaaagt 300
cacgaaggta gcaaagatca caacgctgcc cagganaaca ttcatttgta taagcaggac 360
tccgtcgacg 370

<210> 425
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 425
aattgtatn ntttattttg ccactcaaaa taattacaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggccga 120
anattatcca ttatnttaag ggttgacttc aggtacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtntntg aggagg 216

<210> 426
<211> 596
<212> DNA
<213> Homo sapiens

<400> 426

cttccagtga ggataaccct gttgccccgg gccgagggttc tccattaggc tctgattgat 60
tggcagtca gatggaaagg gtgttctgat cattccgact gccccaaagg tcgcgtggca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgta attaaagag tagatggta 180
gctgtccctt tattttgatt aacctaattgg cttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa taaaatgatt tgaagggcca ttaagaggca cttcccgta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggcgga gctgtggccc 360
aaacgcacac ttggctttt gtttgagat acaactctta atcttttagt catgctttag 420
ggtggatggc ctttcagct ttaacccaat ttgcactgcc ttggaaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggc tactgcctga 540
gtcccgctgg tccccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427

<211> 107

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(107)

<223> n = A,T,C or G

<400> 427

gaagaattca agtttaggtt attcaaaggc cttacngaga atcctanacc caggncccag 60
ccgggagca gccttanaga gctcctgtt gactgcccgg ctcagng 107

<210> 428

<211> 38

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(38)

<223> n = A,T,C or G

<400> 428

gaacttccna anaangactt tattcactat tttacatt

38

<210> 429

<211> 544

<212> DNA

<213> Homo sapiens

<400> 429

ctttgctgga cggaaaaaa gtggacgcaa gcatgaccc tcgtatgggg cgctgcattt 60
attgaagagc ggctgcagcc ctgcggta gataaaaatc cgagaattgt atagacgccc 120
atatccacga actcttgaag gactttctga ttatccaca atcaaatcat cggtttcag 180
tttggatggt ggctcatcac ctgtagaacc tgacttggcc tggttgtggaa tccactcggt 240
gccttccact tcagttcacac ctcactcacc atccctctct gttgggtctg tgctgctca 300
agatactaag cccacatttg agatgcagca gccatctccc ccaatttcctc ctgtccatcc 360
tgatgtgcag taaaaaaatc tgcccttta tgatgtcctt gatgttctca tcaagcccac 420
gagtttagtt caaagcagta ttcaagcgatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gtttagagaga tatgcataatc cagggatttt ttgcctggc gtaggagaga 540
ttat 544

<210> 430

<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

<400> 430
cttatcncaa tggggctccc aaactggct gtgcagtggaa aactccgggg gaattttgaa 60
gaacactgac acccatcttc caccccgaca ctctgatTTA attgggctgc agtgagaaca 120
gagcatcaat taaaaaagct gcccagaatg ttntcctggg cagcgtgtg atcttgcen 180
ccttcgtgac tttatgcaat gcatcatgct atttcataacc taatgaggga gttccaggag 240
attcaaccag gatgtttcta cnccctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcggtt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtgaa tggataatct aatgtgttcc tagtaggcac agggctccc ggcaggcct 420
catttcctc tggcctctaa tagtcaatga ttgtgttagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaaaa 507

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgggtgtggaa gtcctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgggttttagg taaaatgtac aacttctggaa tctatgcaga cattgaaggt 360
gcaatgagtc tggctttac tctgctgttt ct 392

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctttg tcttattttt ttgtctataa tactgtattt 120
ngtagtccaa gotctcggnna gtccagccac tgnngaaacat gctccctta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgtt ctgtctgnga 240
attctgttgc ttctggggca ttcccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattt ntccaaatcac agctgcgatt aagacatact gaaatcgatc aggaccggga 360
acaacgtata gaacactggaa gtcctt 387

<210> 433

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(281)

<223> n = A,T,C or G

<400> 433

ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagngagg ntctctgtnt gcccactggt 240
tnnaaaaccg ntataacaata atgatagaat aggacacaca t 281

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

ttttaaaata agcatttagt gctcagtccc tactgagtagtac tctttctctc ccctccctcg 60
aatttaattc ttcaacttg caatttgc当地 ggattacaca tttcaactgtg atgtatattg 120
tgttgc当地 aaaaaaaaaagt gtctttgtt当地 aaaattactt ggtttgc当地 tccatcttgc 180
tttttccccca ttggaacttag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtc当地 tcagcatctg acaggtgaaat tggatggttc tcagaaccat ttcacccaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
tgctccaatc tgacataa aagtctgtga cttgaagttt agtcagcacc cccacccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

gcggccgtca gagcagggtca ctttctgcct tccacgtcct ccttcaagga agccccatgt 60
gggttagctt caatatcgca ggttctact cctctgcctc tataagctca aaccaccaa 120
cgatcgccca agtaaaccccc ctccctcgcc gacttggaa ctggcggag ttcagcgcag 180
atggcctgt ggggaggggg caagatagat gggggggagc ggcatggtc ggggtgaccc 240
cttggagaga gggaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300
ggtagagacc ttggggggc tggAACCTCT ggactcccca tgcctctaact cccacactct 360
gctatcagaa acttaaactt gaggatttc tctgttttc actcgcaata aattcagagc 420
aaac 424

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

accttggaa nacttcaca atataaagg tcgttagactt tactccaaat tccaaaaagg 60
 tcctgccat gtaatcctga aagtttccc aaggtagcta taaaatcctt ataagggtgc 120
 agccttctt ggaattcctc tgatttcaaa gtctactct caagttctg aaaacgaggg 180
 cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
 atgggctgcc agagtaggat aggattccag atgctgacac cttctgggg aaacagggtc 300
 gccaggtttg tcatagcact catcaaagtc cggtcaacgt ctgtgcttcg aataaaaacc 360
 tggatgtt tataggactc attcaagaat ttcttatatc tctttcttat atactctcca 420
 agttcataat gctgtccat gcccagctgg gtgagttggc caaatcctg tggccatgag 480
 gattcctta tggggtcagt gggaaagggtg tcaatgggac ttccgtctcc atggcggaaac 540
 accaaagtca caaaacttcaa ctccttggct agtacacttc ggtctagcca gaaaaaaaaagc 600
 agaaacaaga agccaaggct aaggcttgct gccctgccag gaggagggt gcagctctca 660
 tggatgtt 667

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

ctacgtctca accctcattt ttaggttaagg aatcttaagt ccaaagatata taagtgactc 60
 acacagccag gtaaggaaag ctggatggc acactaggac tctaccatac cgggttttgt 120
 taaagtcag gttaggaggtg tgataagctt ggaaggaact tcagacagct ttttcagatc 180
 ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
 aggtactcct ctatttcac ccctcttgct tctactctct ggcagtcaga cctgtggag 300
 gccatggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
 catttcctcca ggttacccta ggtgtacta ttggggggac agccagcata ttttagcttc 420
 atttgagttt ctgtctgtct tcagtagagg aaactttgc tcttcacact tcacatctga 480
 acacctaact gctgttgctc ctgaggtgg gaaagacaga tatagagctt acagtattta 540
 tcctatttctt aggcactgag ggctgtggg taccttggtt tgccaaaaca gatcctgttt 600
 taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgtt gctcttacc 660
 ctgcatcatg tgctcttgc gctgaaaatg acc 693

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

ctgcttatca caatgaatgt tctcctggc agcgttgtga tctttgccac cttcgtaact 60
 ttatgaatg catcatgta tttcataacct aatgagggag ttccaggaga ttcaaccagg 120
 atgtttctac acctgtgggt tatgacaaag acaactgcca aagaatctc aagaaggagg 180
 actgcaagta tatctgtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
 gataatctaa tggatgttctca gttaggcacag ggctcccagg ccaggcctca ttctccctctg 300
 gcctctaata gtcataattt gtgttagccat gcctatcgtt aaaaagatgtt ttgagcaaac 360

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439

gttcctnnta actcctgcca gaaacagctc tcctcaacat gagagctgca cccctccctcc 60

tggccagggc agcaaggcctt agccttggct tcttgtttct gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttgc tgactttgggt gtttcggcat ggagaccgaa 180
gtcccatgttga cacccttccc actgacccca taaaggaatc ctcatggcca caaggatttgc 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagttataaagaaaaga 300
gatataaaaaattcttgaat gagtcctata aacatgaaca gtttatatt cgaagcacag 360
acgttggccg gactttgtatg agtgctatga caaacctggc agcccggtcgca cgccggcccg 420
aatttagtag t 431

<210> 440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 440

agagataaaag cttaggtaaa agttcataga gttcccatgttga actatatgtac tggccacaca 60
ggatcttttgc tatttaagga ttctgagatt ttgtttggc aggatttagat aaggctgttc 120
tttaaatgttgc tggaaatggaa cagatttcaa aaaaaaaaaaccc cacaatcttag ggtggaaaca 180
aggaaggaaa gatgtgaata ggctgtatggg caaaaaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaaa agaaaggaga tacagttggag acatctggaa agtttctcc 300
actggaaaac tgctactatc tggttttata ttctgtttaa aatataatgtac gctacagaac 360
taaaaaattaa aacctcttttgc tgcccttgg tccttggaaaca ttatgttcc tttaaagaa 420
acaaaaatca aactttacag aaagatttgc tttatgtat aatataatgtac gcttttgc 480
tatataatatc atagcaaata agtcatctgttgc tgagaacaag cta 523

<210> 441

<211> 430

<212> DNA

<213> Homo sapiens

<400> 441

gttcccttcta actcctgcca gaaacagctc tcctcaacat gagagctgca cccctccctcc 60
tggccagggc agcaaggcctt agccttggct tcttgtttct gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttgc tgactttgggt gtttcggcat ggagaccgaa 180
gtcccatgttga cacccttccc actgacccca taaaggaatc ctcatggcca caaggatttgc 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagttataaagaaaaga 300
gatataaaaaattcttgaat gagtcctata aacatgaaca gtttatatt cgaagcacag 360
acgttggccg gactttgtatg agtgctatga caaacctggc agcccggtcgca cgccggcccg 420
aatttagtag 430

<210> 442

<211> 362

<212> DNA

<213> Homo sapiens

<400> 442

cataagaatt agtagtgttc ccatcaacttgc tttggagtgt gctattctaa aagattttgttga 60
tttcctggaa tgacaattat atttaactt tggtggggaa aagagttata ggaccacagt 120
cttcacttct gatacttgcata aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggcttcattt tacggaaaaaa tttagaaaaat tctgataata gtgcagaata 240
aatgaattaa ttttttactt aatttatatt gaactgtcaa tgacaaataaa aattttttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaatgttgc 360
tc 362

<210> 443

<211> 624

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

<400> 443
ttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaaattcaga ggagggaga gaaagagtac tcagtaggga ctgagacta 120
aatgcttatt ttaaaaagaaa tgtaaagac agaaagcaat tcaggctacc ctgcctttg 180
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattt caatgtggag 240
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaaggcgca gttatgaggc ttaaatgaac 360
taacgcctac aaaacactta aacatagata acataggc aagtactatg tatctggta 420
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtc atatgcta 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaaagggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaact 600
ttgtccctat ctgctaaaca gatc 624

<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

<400> 444
gcacatcatt nntcttgcat tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaaca caaaatttgc ataagtggtg gtcagcaat ccttgaatgc 180
tgcttaatgt gagaggttgg taaaatcctt tgtcaacac tctaactccc tgaatgttt 240
gctgtgtgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacccctc ctgctggcag gatttgg tgcacccctgt gaagagccaa 360
ggaggccacca gggcataagt gatgactt atggtcgacg cggccgcgaa ttttagtagta 420
gtaga 425

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

<400> 445
catgtttat ntttggatt actttggca cctagtgttt ctaaatcgctc tatcattttt 60
ttctgtttt caaaaggcaga gatggccaga gtctcaacaa actgtatctt caagtcttt 120
tgaaaattctt tgcatgtggc agattattgg atgtatttt cttaactag catataaattc 180
tggtgtgttt cagataaaatg aacagaaaaa tgtggggaa ttaccattt gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta ttccctaacc attgatttt 300
ggatttttat aatcctactc acaaattactg aggttctcc tcttgttattt tgaagcagtg 360
tgggtgtgg attgataaaa aaaaaaaaaa tcgacgcggc cgcaattta gtag 414

<210> 446

<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

<400> 446
acaattaga anaaagtgc agagaacacc acatacctt tccggaacat tacaatggct 60
tctgcatgc tggaaagtgt gaggcattca tcaatatgc ggagccatct tgcaagggttg 120
atgctgtta tactggacaa cactgtaaaa aaaaggacta cagtgttcta tacgttgttc 180
ccgtcctgt acgatttcag tatgtctta tcgcagctgt gattggaaca attcagattt 240
ctgtcatctg tgggtggtc ctctgcata caagggccaa acttttagta atagcattgg 300
actgagattt gtaaaacttcc aacacccca gaaaaatgcc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgagg 420
taatctaaag ggacatgtt tcacagtggc tggactaccg agagcttgg ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tggccttg catttgggt 540
aatctacacc aatgaaaaca tgtactacag ctatatttga ttatgtatgg atatatttga 600
aatagtatac atgtcttga tggttttct g 631

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

<400> 447
cctggggaaa antntcacaa tataaagggt ctagacttt actccaaatt ccaaaaagg 60
cctggccatg taatcctgaa agttttccca aggttagctat aaaatccttta taagggtgc 120
gcctcttctg gaattcccttctt gatttcaaag tctcactctc aagttcttga aaacgagg 180
agttcctgaa aggccaggat agcaactgtat cttcagaaag aggaactgtg tgccacgg 240
tggctgcca gagtaggata ggatccaga tgctgacacc ttctggggaa aacagg 300
ccagggttgtt catagactc atcaaagtcc ggtcaacgtc tggcttgcata atataaacc 360
gttcatgtttt ataggactca ttcaagaatt ttcttatcttcttata tactctccaa 420
gttcataatg ctgcctccatg cccagctggg tggatggcc aatcccttgc ggcctgagg 480
attcccttat ggggtcagtggaaagggtgt caatggact tggcttccatg tgccgaaaca 540
ccaaagtacaa aacttcaac tccttgcata gtacacttcg gtctt 585

<210> 448
<211> 93
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G

<400> 448
tgctcggtt tcattctgan nnccgaactg accntgccag ccctgccan gggccnccat 60
ggctcccttag tgccctggag aggangggc tag 93

<210> 449
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 449
ccaaggttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtcctggaaag gtggcctctg ngaggagcca 180
cggggacagc atcccgaga tggtcgggag cgccattcagg ctgcgcaact 240
gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaaatg tgggtaacgc cagggttttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaatttaat tttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
cgtacgtaag ctggatcct ctagagcggc cgccctactac tactaaattc gcggccgcgt 480
cgacgtggga tccncactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
caactgagcag aactgtggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncnc 660
gcatggatga cagagtaaa ctccatctta aaaaaaaaaa aaaaaaa 706

<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

<400> 450
gagacggagt gtcactctgt tgccccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagtttaa aagttaaaac aacataaaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaaggatc ttacagacat gtcgccaata tcactgcacg 180
agcctaagta taagaacaaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcaggta agtgaatattt gttggattaa actcaaattt atccctgcacg ctgaaacgc 300
agagacactg tcaagagattt aaaaagttagt ttctatccat gaggtgattt cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagtttta aaccactgtt caaactctgc 420
tacacatcg aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
gcgaatttag tag 493

<210> 451
<211> 501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 451
gggcgcgtcc cattcgccat tcaggctgctg caactgttgg gaagggcgat cggtgcgggc 60
ctcttcgcta ttacgcccgc tggcgaaagg gggatgtgtc gcaaggcgat taagttgggt 120
aacgcaggc ttttcccgat cncgacgttg taaaacgacg gccagtgaat tgaattttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atccctctaga 240
gcggccgcct actactacta aattcgccgc cgctcgacg tgggatccnc actgagagag 300
tggagagtga catgtgttgc acnctgttcca tgaagactg agcagaagct ggagggcaca 360
cgcnccagac actcacagct actcaggagg ctgagaacacg gttgaacctg ggaggtggag 420

gttgcaatga gctgagatca ggccnctgcn ccccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

<210> 452
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G

<400> 452
agacggtttc accnttacaa cncccttttag gatgggnntt ggggagcaag c 51

<210> 453
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

<400> 453
tacatcttgc tttttccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaccat 120
ttcacccana cagcctgttt ctatcctgtt taataaattt gtttgggttc tctacatgca 180
taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
ccccaccaaac ttatTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
tacccatgtc ttatTTA 317

<210> 454
<211> 231
<212> DNA
<213> Homo sapiens

<400> 454
ttcgaggtac aatcaactct cagagtgttag tttccttcta tagatgagtc agcattaata 60
taagccacgc cacgctctt aaggagtott gaattctcct ctgctcactc agtagaaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttccttt tcagtgttcc aaagctccctc acaatttcat gaacaacagc t 231

<210> 455
<211> 231
<212> DNA
<213> Homo sapiens

<400> 455
taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtaaaaaa 60
cattgttccg aatgggctt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttccttgc gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtcc tttctcctct a 231

<210> 456
<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

ttggcaggta cccttacaaa gaagacacca taccttatgc gttatttaggt ggaataatca 60
ttccattcag tattatcggtt attattcttg gagaaaccct gtctgttac tgtaaccttt 120
tgcactcaaa ttcccttatac aggaataact acatagccac tatttacaaa gccattggaa 180
ccttttatt tggtcagct gctagtca gcttgcactga cattgccaag t 231

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

cgaggtaccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcatttccta atatgatctt gctataatta gattttctc cattagagtt catacagttt 120
tatttattt tattagcaat ctcttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtcgc tggctttgt g 231

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

aggctgggtt ccccccaattt ccactccctt ctactctctc taggactggg ctgggccaag 60
agaagagggg tggtaggga agccgttgag acctgaagcc ccaccctcta ctttccttca 120
acacccttaac ctgggttaac agcatttggaa attatcattt gggatgagta gaatttccaa 180
ggctctgggt taggcattttt gggggccag accccaggag aagaagatc t 231

<210> 459

<211> 231

<212> DNA

<213> Homo sapiens

<400> 459

ggtaccgagg ctcgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
ccttcgcgaa acctgtgggt gcccaccagt cctaacggga caggacagag agacagagca 120
gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgtttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460

<211> 231

<212> DNA

<213> Homo sapiens

<400> 460

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cctatcaccc tattcttggg ggctgtttct tcacagtgtat catgaaggct agcagcaaat 120
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<213> Homo sapiens

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<210> 463
<211> 231
<212> DNA
<213> Homo sapiens

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<210> 464
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<213> Homo sapiens

<400> 464
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<210> 466
<211> 231
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<213> Homo sapiens

<400> 466

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<210> 467

<211> 311

<212> DNA

<213> Homo sapiens

<400> 467

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<212> DNA

<213> Homo sapiens

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<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

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<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

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<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

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<400> 472

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<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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<211> 2414

<212> DNA

<213> Homo sapiens

<220>

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<222> (33)

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<400> 475

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<211> 3434
<212> DNA
<213> Homo sapiens

<400> 476

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 <212> PRT
 <213> Homo sapiens

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Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
 35 40 45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
 50 55 60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
 65 70 75 80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
 85 90 95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His Ala Asp Thr
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Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
 115 120 125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
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<210> 478
 <211> 143
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Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Gly Thr

50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
65 70 75 80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
85 90 95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
100 105 110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
115 120 125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
130 135 140

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Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
20 25 30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
65 70 75 80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
85 90 95

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val
100 105 110

Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
115 120 125

Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
130 135 140

Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
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Cys His Thr Asp Thr Thr Ser Leu Pro His Phe His His Val Ser Ala
165 170 175

Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp

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Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
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Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
210 215 220

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<211> 144
<212> PRT
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5 10 15

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 20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
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<210> 481
<211> 167
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<213> *Homo sapiens*

<400> 481
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Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

 Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

 Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

 Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

 Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

 Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

 Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

 Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

 Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
 5 10 15

 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30

 Arg Ala Ser Trp Leu Pro Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45

 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60

 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80

 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95

 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110

 Ala Ser Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140

<210> 483
<211> 143
<212> PRT
<213> Homo sapiens

<400> 483
Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
<211> 30
<212> PRT
<213> Homo Sapien

<400> 484
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 485
gggaagctta tcacctatgt gccgcctctg c

<210> 486
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 486

gcgaattctc acgctgagta tttggcc

27

<210> 487
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 487

cccgaaattct tagctgcccc tccgaacgcc ttcatc

36

<210> 488
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 488

gggaagcttc ttcccccggct gcaccagctg tgc

33

<210> 489
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 489

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
1 5 10 15
Ser Val Ala

<210> 490
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 490

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys

1 5 10 15
Leu Ser His Ser
20

<210> 491
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 491
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
1 5 10 15
Thr Gly Phe Thr
20

<210> 492
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 492
Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
1 5 10 15
Leu Ala Ser Leu
20

<210> 493
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 493
Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
1 5 10 15
Lys Tyr Arg Gly
20

<210> 494
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 494
Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
1 5 10 15
Leu Met Ile Ser

20

<210> 495
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 495
Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro
1 5 10 15
Phe Pro Asn Gly
20

<210> 496
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 496
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1 5 10 15
Pro Pro Pro Pro Ala
20

<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 497
Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
1 5 10 15
Ser Val Arg Val
20

<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 498
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
1 5 10 15
Val Pro Gly Arg
20

<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 499
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
1 5 10 15
Ser Ala Phe Leu
20

<210> 500
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 500
Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
1 5 10 15
Gly Ser Ile Val
20

<210> 501
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 501
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
1 5 10 15
Val Ser Ala Ala
20

<210> 502
<211> 414
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(414)
<223> n=A,T,C or G

<400> 502
caccatggag acaggccctgc gctggctttt cctggtcgct gtgctcaaag gtgtccaaatg 60
tcagtccgtg gaggagtcgg ggggtcgccct ggtcacgcct gggacacacctt tgacantcac 120
ctgttagagtt ttggaaatng acctcagtag caatgcataatg agctgggtcc gccaggctcc 180
agggaaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacactgggc 240

gaaaggccga ttnatnattt ccaaaaacctn gaccacgggt gatttggaaaa tgaccagtcc	300
gacaaccgag gacacggcca cctattttg tggcagaatg aatactggta atagtggttg	360
gaagaatatt tggggcccaag gcaccctggc caccgtntcc tcagggcaac ctaa	414

<210> 503
<211> 379
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(379)
<223> n=A,T,C or G

<400> 503	
atncgatggc gcttggtcaa aggtgtccag tgcgttcgg tggaggagtc cgggggtcg	60
ctggcacgc ctgggacacc cctgacactc acctgcaccc tntctggatt ngacatcagt	120
agctatggag tgagctgggt ccgcaggct coagggaaagg ggctggnata catcgatca	180
ttagtagtag ttgtacatt tacgcgagct gggcgaaagg ccgatttacc atttccaaaa	240
cctngaccac ggtggattttg aaaatccca gtttgacaac cgaggacacg gccacctatt	300
tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctggtcaccg	360
tntccttagg gcaacctaa	379

<210> 504
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 504	
Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu	
1 5 10 15	
Asn Ser Ala	

<210> 505
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 505	
Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr	
1 5 10 15	
Asn Thr Ala Asn	
20	

<210> 506
<211> 407
<212> DNA
<213> Homo Sapien

<400> 506

atggagacag gcctgcgtg gtttcctg gtcgtgcgc tcaaagggtgt ccagtgtcag	60
tcgtggagg agtccgggg tcgcctggc acgcctggg caccctgac actcacctgc	120
accgtctctg gattctccct cagtagcaat gcaatgatct gggccggca ggctccaggg	180
aaggggctgg aatacatcg atacattatg tatgttgta gcgcatacta cgcgagctgg	240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt	300
ctgacaaccg aggacacggc cacctattc tggccagaa atagtgattt tagtggtatg	360
ttgtggggcc caggcacctt ggtcaccgtc tcctcaggc aacctaa	407

<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

<400> 507	
atggagacag gcctgcgtg gtttcctg gtcgtgtgc tcaaagggtgt ccagtgtcag	60
tcgtggagg agtccgggg tcgcctggc acgcctggg caccctgac actcacctgt	120
acagtctctg gattctccct cagcaactac gacctaact gggccggca ggctccaggg	180
aaggggctgg aatggatcg gatcattaat tatgttgta ggacggacta cgcgaaactgg	240
gcaaaaaggcc gttcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt	300
ccgacaaccg aggacacggc cacctattc tggccagag ggtggaaatg cgatgagtct	360
ggtcgtgct tgccatctg gggccaggc accctggta ccgtctcctt agggcaacct	420
aa	422

<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

<220>	
<221> misc_feature	
<222> (1)...(411)	
<223> n=A,T,C or G	
<400> 508	
atggagacag gcctgcgtgg ttctcctgg tcgtgtgct caaagggtgtc cagtgtcagt	60
cggggagg gtcgggggt cgcctgtca cgcctggac acccctgaca ctacacctgca	120
cagtctctgg aatcgaccc agtagctact gcatgagctg ggtccggcag gctccaggg	180
aggggctggg atggatcgga atcattggta ctctggta cacataactac gcgagggtgg	240
cgaaaaggccg attcaccatc tccaaaaccc cgaccacggt gcatntgaaa atcnccagtc	300
cgacaaccga ggacacggcc acctatttct gtggccagaga tcttcggat ggttagtagta	360
ctggttatta taaaatctgg ggcccaggca ccctggtac cgtctcctt g	411

<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

<220>	
<223> Made in a lab	
<400> 509	
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser	
1 5 10 15	

<210> 510
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 510

Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5 . 10 15

<210> 511

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gln Asp Gln Lys
1 5 . 10 15

<210> 512

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 512

Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
1 5 . 10 15

<210> 513

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 513

Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
1 5 . 10 15

<210> 514

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 514

Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1 5 . 10 15

<210> 515

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 515
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1 5 10 15

<210> 516
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 516
Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
1 5 10 15

<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 517
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1 5 10 15

<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1 5 10 15

<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 519
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
1 5 10 15

Gly

<210> 520
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 520
Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
1 5 10 15
Glu Ala Arg Arg His Tyr Asp Glu Gly
20 25

<210> 521
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 521
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1 5 10 15
Pro Pro Pro Pro Ala
20

<210> 522
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 522
Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
1 5 10 15
Phe Thr Gln Val
20

<210> 523
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<220>
<221> VARIANT
<222> (1)...(254)
<223> Xaa = any amino acid

<400> 523

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1 5 10 15
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20 25 30
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35 40 45
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50 55 60
 Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65 70 75 80
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85 90 95
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
 100 105 110
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
 115 120 125
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
 130 135 140
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
 145 150 155 160
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
 165 170 175
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
 180 185 190
 Ala Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
 195 200 205
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
 210 215 220
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
 225 230 235 240
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 245 250

<210> 524

<211> 765

<212> DNA

<213> Homo sapien

<400> 524

atggccacag	caggaaatcc	ctggggctgg	ttcctgggtt	acctcatcct	tggtgtcgca	60
ggatcgctcg	tctctggtag	ctgcagccaa	atcataaacg	gcgaggactg	cagcccgac	120
tcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tgttctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccca	cactgtttcc	agaactccta	caccatcggg	240
ctggccctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatgtt	ggaggccagc	300
ctctccgtac	ggcacccaga	gtacaacaga	cccttgctcg	ctaacgacct	catgctcatc	360
aagttggacg	aatccgtgtc	cgagtctgac	accatccgga	gcatcagcat	tgcttcgcag	420
tgcccttaccc	cgggaaactc	ttgcctcggt	tctggctggg	gtctgctggc	gaacggcaga	480
atgccttaccc	tgctgcagtg	cgtgaacgtg	tcgggtgtgt	ctgaggaggt	ctgcagtaag	540
ctctatgacc	cgctgtacca	ccccagcatg	ttctgcggcg	gcggagggca	agaccagaag	600
gactctgtca	acggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	660
gtgtcttcg	gaaaagcccc	gtgtggccaa	gttggcgtgc	caggtgtcta	caccaacctc	720
tgcaaattca	ctgagtgat	agagaaaacc	gtccaggcca	gttaa		765

<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1 5 10 15
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20 25 30
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35 40 45
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50 55 60
 Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65 70 75 80
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85 90 95
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
 100 105 110
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
 115 120 125
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
 130 135 140
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
 145 150 155 160
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
 165 170 175
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
 180 185 190
 Ala Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
 195 200 205
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
 210 215 220
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
 225 230 235 240
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 245 250

<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggatttagag 60
 aaagccatt tctgggttgg cttccccctc ctttccatgt atgtagtggc aatgtttgga 120
 aactgcacg tggcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
 tttctctgca tggttgcagc cattgacctg gccttatcca catccacccat gcctaagatc 240
 ctggccctt tctggtttga ttcccgagag attagcttg aggctgtct tacccagatg 300
 ttctttattc atgcccttc agccattgaa tccaccatcc tgctggccat ggccttgac 360
 cgttatgtgg ccatctgcca cccactgcgc catgtgcag tgctcaacaa tacagtaaca 420
 gcccagattg gcatcgtggc tgggtccgc ggatcccctt ttttttccc actgcctctg 480
 ctgatcaagc ggctggccctt ctgccactcc aatgtcctct cgcaactccca ttgtgtccac 540
 caggatgtaa tgaagttggc ctatgcagac acttgcacca atgtggata tggtcttact 600
 gccattctgc tggcatggg cgtggacgta atgtcatct ccttgcctt ttttctgata 660
 atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggccctt tggAACCTGT 720
 gtgtcacaca ttggtgtggt actgccttc tatgtgcac tattggct ctcagttgt 780
 caccgcctt gaaacagcct tcattccatt gtgcgtgttgc tcatgggtga catctacctg 840
 ctgctgcctc ctgtcatcaa tccccatcatc tatggtgcac aaaccaaaca gatcagaaca 900
 cgggtgtgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960
 tga 963

<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
5 10 15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
20 25 30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
35 40 45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
50 55 60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
65 70 75 80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
85 90 95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
100 105 110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
115 120 125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
130 135 140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Pro Leu Pro Leu
145 150 155 160

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
165 170 175

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
180 185 190

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
195 200 205

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
210 215 220

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
225 230 235 240

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
245 250 255

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
260 265 270

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
 275 280 285

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
 290 295 300

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 305 310 315 320

<210> 528
<211> 20
<212> DNA
<213> Homo Sapien

<400> 528
actatggtcc agaggctgtg

20

<210> 529
<211> 20
<212> DNA
<213> Homo Sapien

<400> 529
atcacctatg tgccgcctct

20

<210> 530
<211> 1852
<212> DNA
<213> Homo sapiens

<400> 530
ggcacagaaa taaaaaccct cagcaaaaca ggcataagaag ggacataacct taaagtaata 60
aaaaccacct atgacaagcc cacagccaac ataataactaa atggggaaaa gttagaagca 120
tttcctctga gaactgcaac aataaaataca aggatgctgg attttgtcaa atgcctttc 180
tgtgtctgtt gagatgctta tgtgactttg ctttaattc tgtttatgtt attatcacat 240
ttattgactt gcctgtgtt gaccgaaaga gctgggtgt ttctcaggag ccaccgtgtg 300
ctgcggcagc ttccggataa cttgagagctg catcaactggg gaagaaaacac aytctgtcc 360
gtggcgctga tgctgagga cagagctca gtgtggcttc tctgcactg gcttcttcgg 420
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Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
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Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
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Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
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Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu

130

135

140

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Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
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Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
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Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
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Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
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Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
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Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
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<210> 537

<211> 1228

<212> PRT

<213> Homo sapiens

<400> 537

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Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
35 40 45

Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
50 55 60

Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
65 70 75 80

Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
85 90 95

Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
100 105 110

Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
115 120 125

Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys
130 135 140

Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
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Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
165 170 175

Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Gly
180 185 190

Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val
195 200 205

Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala
210 215 220

Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly
225 230 235 240

Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys
245 250 255

Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg
260 265 270

Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met
275 280 285

Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys
290 295 300

Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn
305 310 315 320

Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe
325 330 335

Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe

340

345

350

Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe
355 360 365

Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg
370 375 380

Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg
385 390 395 400

Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr
405 410 415

Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser
420 425 430

Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly
435 440 445

Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro
450 455 460

Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln
465 470 475 480

Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly
485 490 495

Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala
500 505 510

Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile
515 520 525

Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn
530 535 540

Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp
545 550 555 560

Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu
565 570 575

Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His
580 585 590

Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp
595 600 605

Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly
610 615 620

Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln
625 630 635 640

Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu
645 650 655

Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly
660 665 670

Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu
675 680 685

Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr
690 695 700

Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu
705 710 715 720

Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser
725 730 735

Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly
740 745 750

Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr
755 760 765

Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu
770 775 780

Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys
785 790 795 800

Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn
805 810 815

Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu
820 825 830

Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu
835 840 845

Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile
850 855 860

Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg
865 870 875 880

Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr
885 890 895

Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp
900 905 910

Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp
915 920 925

Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr
930 935 940

Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val
945 950 955 960

Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala
 965 970 975

Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met
 980 985 990

Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile
 995 1000 1005

Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro
 1010 1015 1020

Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val
 1025 1030 1035 1040

Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu
 1045 1050 1055

Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly
 1060 1065 1070

Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu
 1075 1080 1085

Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu
 1090 1095 1100

Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
 1105 1110 1115 1120

Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
 1125 1130 1135

Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
 1140 1145 1150

Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr
 1155 1160 1165

Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
 1170 1175 1180

Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
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35 40 45

Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
50 55 60

Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
65 70 75 80

Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
85 90 95

Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
100 105 110

Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
115 120 125

His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
130 135 140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
145 150 155 160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
165 170 175

Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
180 185 190

Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
195 200 205

Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
210 215 220

Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
225 230 235 240

Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
245 250 255

Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
260 265 270

Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
275 280 285

Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr
290 295 300

Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu
305 310 315 320

Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
325 330 335

Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile
340 345 350

Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
355 360 365

Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr
370 375 380

Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val
385 390 395 400

Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu
405 410 415

Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile
420 425 430

Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
435 440 445

Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val
450 455 460

Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly
465 470 475 480

Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln
485 490 495

Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile
500 505 510

Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg
515 520 525

His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr
530 535 540

Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile
545 550 555 560

Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu
565 570 575

Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn
580 585 590

Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn
595 600 605

Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro
610 615 620

Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro
625 630 635 640

Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln
645 650 655

Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile
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Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln
675 680 685

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785 790 795 800

Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala
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Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe
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Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg
835 840 845

Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser
850 855 860

Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys
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Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe
885 890 895

Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile
900 905 910

Cys Ala Met Phe Val Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala
915 920 925

Lys Thr Leu Asp Ala Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu

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Thr Leu Met Gly Met Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val		
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960		
Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu		
965	970	975
Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp		
980	985	990
Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser		
995	1000	1005
Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser		
1010	1015	1020
Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser		
1025	1030	1035
1040		
Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp		
1045	1050	1055
Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys		
1060	1065	1070
Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met		
1075	1080	1085
Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp		
1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro		
1105	1110	1115
1120		
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val		
1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn		
1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr		
1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr		
1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys		
1185	1190	1195
1200		
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr		
1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln		
1220	1225	1230
Leu Gly Lys Ala Glu Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg		
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<220>
<223> Made in a lab

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<210> 540
<211> 9
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<212> PRT
<213> Homo sapiens

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<210> 544
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<212> PRT
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Met Thr

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Ser Val

<210> 546
<211> 29
<212> PRT
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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
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<212> PRT
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Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
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Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
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<210> 548
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<213> Homo sapiens

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Glu Cys

<210> 549
<211> 18
<212> PRT
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Gln Ala

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<212> PRT
<213> Homo sapiens

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5 10

<210> 551
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<212> PRT
<213> Artificial Sequence

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<223> Made in a lab

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tcataccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180
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<400> 53
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5 10 15

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His
50 55

<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
5 10 15

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
20 25 30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
35 40 45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
50 55

<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
5 10 15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
20 25 30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
35 40 45

Leu Val Ala Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
50 55 60

Ser Asp Pro Leu Glu Leu Leu
65 70

<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
5 10 15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
20 25 30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
35 40 45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile

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55

60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
65 70 75 80

Ile

<210> 557

<211> 54

<212> PRT

<213> Homo sapiens

<400> 557

Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
5 10 15

Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
20 25 30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
35 40 45

Gly Phe His Ile Arg Phe
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<210> 558

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(77)

<223> Xaa = Any amino acid

<400> 558

Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
5 10 15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
50 55 60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
65 70 75

<210> 559

<211> 50

<212> PRT

<213> Homo sapiens

<400> 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

Pro Arg

50

<210> 560

<211> 56

<212> PRT

<213> Homo sapiens

<400> 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu
50 55

<210> 561

<211> 57

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 561

Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
5 10 15

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
50 55

<210> 562
<211> 59
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(59)
<223> Xaa = Any amino acid

<400> 562
Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
50 55

<210> 563
<211> 79
<212> PRT
<213> Homo sapiens

<400> 563
Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
5 10 15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
20 25 30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
35 40 45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
50 55 60

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
65 70 75

<210> 564
<211> 64
<212> PRT
<213> Homo sapiens

<400> 564
Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

<210> 565

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 565

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5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

<210> 566

<211> 55

<212> PRT

<213> Homo sapiens

<400> 566

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
5 10 15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
35 40 45

Leu Lys Leu Val Leu Leu Pro
50 55

<210> 567

<211> 51

<212> PRT

<213> Homo sapiens

<400> 567

Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu

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<210> 570

211 <211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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<213> Homo sapiens

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg		
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg		
20	25	30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu		
35	40	45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu		
50	55	60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala			
65	70	75	80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly		
85	90	95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro		
100	105	110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile		
115	120	125

Leu Leu Asn Tyr	
130	

<210> 574

<211> 62

<212> PRT

<213> Homo sapiens

<400> 574

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn		
5	10	15

His Gly Gly Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln		
20	25	30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu		
35	40	45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala		
50	55	60

<210> 575

<211> 76
<212> PRT
<213> Homo sapiens

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
5 10 15

Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
20 25 30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
35 40 45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
65 70 75

<210> 576
<211> 68
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(68)
<223> Xaa = Any Amino Acid

<400> 576
Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
5 10 15

Thr Val Cys Tyr Leu Ala Ser Ser Ala Ser Arg Glu Thr Ala Thr
20 25 30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
35 40 45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
50 55 60

Pro Gly Tyr Ser
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<210> 577
<211> 57
<212> PRT
<213> Homo sapiens

<400> 577
Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
5 10 15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro

20 25 30

Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
35 40 45

Arg Leu Ala Pro Pro Ala Asp Thr Pro
50 55

<210> 578

<211> 51

<212> PRT

<213> Homo sapiens

<400> 578

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
5 10 15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
35 40 45

Gln Pro His

50

<210> 579

<211> 56

<212> PRT

<213> Homo sapiens

<400> 579

Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
35 40 45

Ile Ala Lys Val Tyr Gln Pro His
50 55

<210> 580

<211> 67

<212> PRT

<213> Homo sapiens

<400> 580

Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
50 55 60

Phe Ile His
65

<210> 581
<211> 77
<212> PRT
<213> Homo sapiens

<400> 581
Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
5 10 15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
20 25 30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
35 40 45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
50 55 60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
65 70 75

<210> 582
<211> 51
<212> PRT
<213> Homo sapiens

<400> 582
Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
5 10 15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
20 25 30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
35 40 45

Leu Gly Val
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<210> 583
<211> 60
<212> PRT
<213> Homo sapiens

<400> 583

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
5 10 15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
20 25 30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
35 40 45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
50 55 60

<210> 584

<211> 76

<212> PRT

<213> Homo sapiens

<400> 584

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
65 70 75

<210> 585

<211> 50

<212> PRT

<213> Homo sapiens

<400> 585

Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
5 10 15

Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
20 25 30

Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
35 40 45

Leu Phe
50

<210> 586

<211> 60

<212> PRT

<213> Homo sapiens

<400> 586

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<210> 587

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 587

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 cacctgtaaa ttgtatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
 gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
 tgagtgttac ctgcgcacagg ctgcatacaa acacgacagg gagatacttg tggtgtcaga 360
 aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
 agaaaactagt caaaaggaga catccacctg tgatatttgc cagtttgggt cagaatgtga 480
 cgaagatgcc gaggatgtct ggtgtgtgt taatatttgc tgttctcaaa ccaacttcaa 540
 tccccctctgc gtttctgtat gggaaatctta tgataatgca tgccaaatca aagaagcatc 600
 gtgtcagaaa caggagaaaa ttgaagtcat gtctttgggt cgatgtcaag ataacacaac 660
 tacaactact aagtctgaag atgggcattt tgcaagaaca gattatgcag agaatgctaa 720
 caaatttagaa gaaagtgcga gagaacacca cataccttgtt ccggAACATT acaatggctt 780
 ctgcatacgat gggaaatgtgt agcattttat caatatgcag gagccatctt gcaggggtgtga 840
 tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttggttcc 900
 cggtcctgtat cgttttcaat atgtcttaat cgcagctgtt atttggaaacaa ttcaagattgc 960
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 cagacagaag caaaatacag ggcactacag ttcaagacaat acaacaagag cgtccacgag 1080
 gttaatctaa agggagcatg tttcacatgt gctggactac cgagagctt gactacacaa 1140
 tacagtatta tagacaaaag aataagacaa gagatctaca catgttgcct tgcatttgg 1200
 gtaatctaca ccaatgaaaa catgtactac agctatattt gattatgtat ggtatattt 1260
 gaaatagttat acattgtctt gatgtttttt ctgtatgtat aataaaactat ttatatcaca 1320
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 aaaaaaaaaaaaaaaa aaaaaaaaaaaa rwmgaccc 1408

<210> 588

<211> 81

<212> PRT

<213> Homo sapiens

<400> 588

Met	Pro	Gln	Lys	Gln	Gln	Asn	Ser	Gln	Thr	Glu	Ala	Lys	Tyr	Arg	Ala
5								10					15		

Leu	Gln	Phe	Arg	Gln	Tyr	Asn	Lys	Ser	Val	His	Glu	Val	Asn	Leu	Lys
		20						25					30		

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
50 55 60

Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
65 70 75 80

Ile

<210> 589

<211> 157

<212> PRT

<213> Homo sapiens

<400> 589

Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
5 10 15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
115 120 125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
130 135 140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
145 150 155

<210> 590

<211> 347

<212> PRT

<213> Homo sapiens

<400> 590

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr
5 10 15

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
20 25 30

Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys
35 40 45

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
50 55 60

Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
65 70 75 80

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
85 90 95

Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
100 105 110

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
115 120 125

Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
130 135 140

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
145 150 155 160

Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
165 170 175

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
180 185 190

Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
195 200 205

Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
210 215 220

Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
225 230 235 240

His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
245 250 255

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
260 265 270

Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
290 295 300

Ala Val Ile Cys Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591
<211> 565
<212> DNA
<213> *Homo sapien*

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<400> 591
actaaagcaa atgaacaagg tgacttgcta gtatcatctg cattcattga agcacaagaa 60
cttcatgcct tgactctatgt aaatgcaata ggattaaaaaa ataaatttga tatcacatgg 120
aaacagacaaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact 180
caggaagcaa gagttaatcc cagaggtcta tgtcctaattg tggatggca aatggatgtc 240
atgcacgtac cttcatttgg aaaattgtca ttgtccatgt tgacagttga tacttattca 300
catttcataat gggcaacctg ccagacagga gaaagtactt cccatgtttaa aagacattta 360
ttatcttgtt ttcctgtcat gggagttcca gaaaaagttt aacagacaaa tggggccaggt 420
tactgttagta aagcatttca aaaattctta aatcgttggaa aattttacaca tacaatagga 480
attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaagct 540
caattggta aacaaaaaaaaaaa 565

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<210> 592
<211> 188
<212> PRT
<213> *Homo sapien*

<400> 592
 Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
 1 5 10 15
 Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
 20 25 30
 Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
 35 40 45
 His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
 50 55 60
 Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
 65 70 75 80
 Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
 85 90 95
 Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
 100 105 110
 Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
 115 120 125
 Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
 130 135 140
 Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
 145 150 155 160
 Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
 165 170 175
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
 180 185

<210> 593
<211> 271

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 593
actttatgtt cnagtgcana aancnccctg gattgccacc ntactctcag ggctgtgant 60
tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt 120
gtcccttagct ggggtctata catgnccngg naagggcngc tgagtncat nagcaaagga 180
nctagnatnt gccccgggtgc ggcctgggcc tacccttna agcatccntn gatccactcc 240
angaaancng gggtagncag gtttnccaac a 271

<210> 594
<211> 376
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(376)
<223> n = A,T,C or G

<400> 594
cctttggggg nggggggaac cttaaccatt gtncctttt atttcatttg gttngggttc 60
gcgcctcn gggccaacaa agttatctn nttaagaga anatttttt ggntngncc 120
cgattaagcg ncaaatgtgt agcaaaaangc cgtgccactt gtggcgtac tncgtcgggt 180
cgattcgacg acaaggcgtn ggcgnntanc gtttagtctcn aatngacccn gtggcatgag 240
cccacgangg ntccgtgtcg tcacatggnc tctagacata acgcncnccn tttttncag 300
agggggntgc cgcctttagg gaggnagggg tggggacact agccaancca nantctnacc 360
ccattgaaga aaagg 376

<210> 595
<211> 242
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(242)
<223> n = A,T,C or G

<400> 595
agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtn cactgaggct 60
tgngnatgcc aggcaaggnc aagctggctc aaaaagcatt cacccaccc tgnnaanggg 120
atgccanagc cangtgcacc agtcccaact angagnccn ggcgtgnac atcttcttcc 180
accctnaaa ntttngcta caangnccat ttttctttt ctcttaaggg ncncntggct 240
tc 242

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<222> (1)...(535)
<223> n = A,T,C or G

<400> 596

accaggta tactgctaaa nagatattta tgca	cctca tatgttaagt cgtatatttt	60
gaaagcttt taaatttttt cttaagaag attttagatg	ttatcactg agtaccagag	120
ggatgttaggc tgatgccctt atcaacaaag tcagggactg	tggcacacaa ggattgacta	180
ctgcagacac ggccacaatg ctaccttag agggcctgaa	tccccctgcc ctctctggtg	240
gggagaaggg ctggcagagc cattagcatg ggccggcc	aatcctggcc actttgacac	300
tcctggtct gaccagggt cctggaggaa gggatgaggt	gggcagtaga gatgtcagg	360
gcagtggccc ctitccatcc acactgaac tatttcagta	tttaccacc aattcagcca	420
ttcccttgtg cgctggctga acatcagccc tgccagg	ctcagttcc cctttgtaaa	480
ggaaagctc tggattcagg gagtcatca tggcttgag aattc		535

<210> 597

<211> 257

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 597

tttcnataacc caaaantacc ccatattang accanacatt	tgtctngaa aaattaccat	60
tntntaacnt ttggccacc tgagannaaa tgggtgtaat	ncatgataag atggancagn	120
attnctcta agatnnngatn agacccggtt ttacggaa	cataatccaag naccaatag	180
gnaacaagcc acgggngggag tcacaaacat atattctta	ctctcataat ccgtnncaca	240
naactnttgn acttgac		257

<210> 598

<211> 222

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(222)

<223> n = A,T,C or G

<400> 598

nntggntacc gtcnaaactt nncttggtac ccgagctcg	atccactagt ccagtgtggt	60
ggaattccat tgggtggc tataagctgt aatagtggag	ncgtgctngg ttcattgcan	120
nagnccctcc gcanncacnc tignnacaac ctgtgagnag	gcnataaatt attcacataa	180
tcatcaactgc atgaanctga ctcaaacgca tccacntaca	cc	222

<210> 599

<211> 238

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(238)

<223> n = A,T,C or G

<400> 599

gcatgacatc ancgtgtnt ttgggnacct ganatngct aaaactnng natgccgggn
 atgnagggttt ggtantgatc tatgcactca catctcatgg ggacgtnnac gatctcagtt gaaagggtca tgtgaataca
 tcgacaangt tgctgnancn gagaagtgtat gatctcagtt gaaagggtca tgtgaataca
 ctttacactt gaaaaagaag cacattggaa atatcacgaa acgnccacca acatctg 60
 <210> 600
 <211> 232
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G 120
 <220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G 180
 <400> 600
 cgaactatcc agactaccta gaaaaattat ttttagtatca gaagaatatc aggggtgttag
 tactcatcg agctaaatga gagcgctta aaaatgttag tttgtcttcc gccatttcta
 cagaaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaaaagc
 aatcgcaat agccccactg cttttacaaa tcatttttc cccaaacacaaa tg 232 60
 <210> 601
 <211> 547
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G 120
 <400> 601
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 tttttcttaa atatcaccta tttaggtgaa aacctgaaat tgcagcttc tggatggat
 gcggaaagaca aactaacatt tttaaagcgc tctcatttag ctctgtatgag tactacaccc
 ctnatattct tctgtatacta aaataatttt cctagtgttag tctaaacttt tttaaaaaga
 catgtaatcc gcggagttag taactcaaaa cgagtgcattc tnggaagtat cgcagccgtt
 nctggatnaa attcccagct tgctngctt ctnagccggg gggcggtnaa aaaaacatct
 gcagccccngg ggnaaaaacc ttgcattgt tcttacgtgt ttacgttatt ttatccct
 nnagcaaggc nggganttgg ggactcgaaa tggtacagtt gggctgggg tcgccttgc
 tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtccc
 tgccatt 180
 <210> 602
 <211> 826
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G 240
 <400> 602
 cgggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg
 taccattcga gtccctactc ctgccttgcg ctagggaaat aaaataacgt aaacacgtaa
 gaacaatgcg aaagcggttt cttccctagg ctgcagattt tcttcttca cccccctgct
 tagcttagcta gctagctggg aatataatcc aaaaaacggct tqcqataacct cctagatgca 300
 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G 360
 <400> 602
 cgggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg
 taccattcga gtccctactc ctgccttgcg ctagggaaat aaaataacgt aaacacgtaa
 gaacaatgcg aaagcggttt cttccctagg ctgcagattt tcttcttca cccccctgct
 tagcttagcta gctagctggg aatataatcc aaaaaacggct tqcqataacct cctagatgca 420
 <220>
 <221> misc_feature
 <222> (1)...(420)
 <223> n = A,T,C or G 480
 <400> 602
 cgggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg
 taccattcga gtccctactc ctgccttgcg ctagggaaat aaaataacgt aaacacgtaa
 gaacaatgcg aaagcggttt cttccctagg ctgcagattt tcttcttca cccccctgct
 tagcttagcta gctagctggg aatataatcc aaaaaacggct tqcqataacct cctagatgca 540
 <220>
 <221> misc_feature
 <222> (1)...(540)
 <223> n = A,T,C or G 547

ctcgtttga gttacaaaact ccgcggatta catgtcttt taaaaaaagtt tagactacac	300
tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna	360
atgagagcgc tttaaaaatg tttagttgtc ttccgcatt tctacagaaa gctgcaattt	420
caggtttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact	480
gcttttacaa atcattttc tcttcttagt atagcctgtc aggtggccta atgtatttt	540
gacatctcta ggaattttaa tagaccagaa atgggtgccca gagatatgcc tgcaactaatc	600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaaactag gcacaatga	660
aatcaagatc tttaggcccag aaatcatgaa nantttana attatittan gaatctgtgg	720
ttctcttct taaaatngaa aaaaaaattt gttaaaccca naaggctcga atacccaagc	780
ncctgaacn anagaacaan gccggagcac cccctccaa atcccc	826

<210> 603

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 603

nnangacttt tgggtntta tacaattttt ttttctattt ctatgaagag aaagccacag	60
agtccaaaa taattctaaa actcatcatg actttctgc ctaaaagatc ttgatttcaa	120
tcgtgcctag tttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt	180
agtgcaggca tatctctggc acccatttct gttctatta aaattcctag agatgtcaaa	240
aattacatta ggcacactga caggctatac ctagaagaga aaaaatgatt tgaaaagca	300
gtggggctat ttgcatttgc tttttttttt tcttaaatat cacctattag gttaaaaacc	360
tgaaatttgc gcttctgtt gaaatggcgg aagacaaaact aacatttta aagcgctctc	420
attagctct gatgagttact acacccctga tattttctg atactaaaat aattttctta	480
gtgttagtcta aactttttta aaaagacatg taatccgcgg agttttaac tcaaaacgag	540
tgcattttagg agtattcgca agccgttct ggattaaatt cccagctagc ttgccttgctt	600
agcaggggcg ggnnaanaag acatctgcag cctaggaaag aaaacctttc gcatgttct	660
tacgtgttta ctttattttt tttcttanaa caaggcngaa ttggactcg aatgttca	720
ttgggggggg ggttccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca	780
agggtcgtcc tgcatttanaa ctggaaattt tggtcc	817

<210> 604

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 604

cttttcaat catttttctt cttcttagtta tanctgtca ggtggcctaa tggtaattttt	60
gacatctcta ngtttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat	120
cttaagtggg gattttatgtt tttctcaagc aagtgtttaa agcaaaaacta ggcacgattt	180
aatcaatgtt cttaggtca anaaagtcat gatgatgtttt agaatttattt taggactctg	240
tggctttctc ttcatagaaa tagaaaaaaa aattgttataa aaccacaaaa ggtcctgaaat	300
agccaaagca acactganca aaaagaacan agcaggaaag caacacacta ccngaattca	360
aattatacta ccagggtgtt gtaacaaaaa cagcattcta ttggcataaa atagacacca	420
agaccaatgg ancagaataa agaacccac aaataaatcc atatatntac cgccanctga	480
ttatcaataa cnaacaccaa gaacataatnt taaggacnt nctattcaat aantagtgt	540
ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agacccctat ccctcaccat	600

acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatnc nccc 694

<210> 605

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 605

taaaaatcta gactacacta ggaaatttatt ttantatcg aagaatatca	gggggtgtagt	60
actcatcana gctaaatgag agcgctttaa aaatgttagt ttgtcttccg	ccatttctac	120
agaaaagctgc aatttcaggt tttcaaccta atagggtata tttaagaaaa	aaaaaaaaagca	180
atcgcaaata gcccccactgc ttttacaat catttttct cttctaggt	tagcctgtca	240
ggtggcctaa tgtaattttt gacatctta ggaattttaa tagaaccaga	aatgggtgcc	300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc	aagtgattaa	360
agcaaaaacta ggcacgattt aaatcaanat cttttaggca agaaagtcat	gatgagttt	420
anaatttattt taggactctg tggcttctc ttcatagaaa tagaaaaaaa	aaattgtata	480
aaaaccacaa aaggctctga atagccaaa gcaacactga	acaaaangaa caaagcagga	540
agcaacacac taccggattt caatttact accaagggtt antaaccaaa	acagcattct	600
attggcata aaatagacca aagaccagtg ggaaacagaa taaagaanc	caaataataat	660
cctatattta cngccccnc		678

<210> 606

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 606

gtggggtcng cancagccaa ctcagctcc tttcggtt tgtagcaga	cgatcatcc	60
tctagtcac tggntcaaa ttccatttg tggggccnc tcgcctcggc	canagatctg	120
agtgancana cngtccccca ctgaggtgcc ccacagcgn	ttgtnttcag cangggctna	180
caactcgacc ggcagcgnan ggctggcaga antngcgc	tnnctcatc ctacgcngtn	240
ngcccgagga aggangacag	gcc	263

<210> 607

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 607

ccatgtgggt cccgggttgc tt

22

<210> 608

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg ctcaggggtt gg

22

<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg gggcaaaagc tggggcagtg aaccatgtgc

40

<210> 610

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 610

ccttgtccag atagcccagt agctgac

27

<210> 611

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 611

gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 612

gcacatggtt cactgccccca gctttgccccc cctgtccagc

40

<210> 613

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 613

ggcgctcgag ttagaattcg gggttggcca cgatggtg

38

<210> 614

<211> 53

<212> DNA

<213> Artificial Sequence

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<223> Primer

<400> 614

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53

<210> 615

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 615

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46

<210> 616

<211> 1350

<212> DNA

<213> Homo sapien

<400> 616

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1080

1140

1200

1260

1320

1350

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<211> 449
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35 40 45
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
50 55 60
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
65 70 75 80
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
85 90 95
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
100 105 110
Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
115 120 125
Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
130 135 140
Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
145 150 155 160
Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gln Asp Gln
165 170 175
Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
180 185 190
Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
195 200 205
Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
210 215 220
Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
225 230 235 240
His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
245 250 255
Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
260 265 270
Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
275 280 285
His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
290 295 300
His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
305 310 315 320
Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
325 330 335
Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
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Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
355 360 365
Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
370 375 380
Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
385 390 395 400
Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
405 410 415
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Phe		

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<212> DNA
<213> Homo sapien

<400> 618

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